Anngunn Marie Gullbrå

Fra: Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>
Sendt: tirsdag 11. april 2023 09:02
Til: Annbjørg Lyssand
Emne: Sv: Klage til kart og oppmålingsavdelinga

Hei igjen, og vel overstått påske.

Som eg har prøvd å forklara, er BRA alt areal innanfor omsluttande ytterveggar- altså total lengde * total breidde, utan noko fråtrekk. Det er nok nokre m2, som er gøymt i innerveggane i leiligheita di.

Eg har brukt arealoversikta som utbyggar har oppgitt for desse leiligheitene til registrering i matrikkelen og så har eg brukt byggeteikningane, til å måla og kontrollera desse. Det kan vera vanskeleg å få heilt nøyaktige mål ved å måla på desse skanna teikningane av så stort bygg.

For å komma heilt til bunns i dette vert det kanskje nødvendig med måling på staden. Dette vil i så fall eventuelt avdelinga som tek seg av klagebehandlinga utføra.

Med helsing

Anngunn Marie Gullbrå | Avdelingsingeniør Kart og Oppmåling

Telefon: +47 56 17 11 81

Innbyggjarservice: +47 56 37 50 00
www.alver.kommune.no

ALVER
KOMMUNE

Fra: Annbjørg Lyssand <annbjorg.lyssand@gmail.com>
Sendt: tirsdag 4. april 2023 16:26
Til: Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>
Emne: Re: Klage til kart og oppmålingsavdelinga

Hei igjen,

Takk for videresending. Om arealet på hvert innvendig rom i leiligheten legges sammen så kommer en ikke høyere enn 80 kvm. Jeg vil selvfølgelig betale det reglene sier, men er jo interessert i å vite hvor de siste 5 kvm har gjemt seg😉.

Med vennlig hilsen
Annbjørg Lyssand

tir. 4. apr. 2023 kl. 13:59 skrev Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>:

> Hei igjen

Til orientering.

Då eg ikkje får dine påstandar til å stemma med byggeteikningar i saka er det oppretta ei klagesak her Sak 23/2825, til avdeling for miljø og tilsyn.
Innsendt salsoppgava under er lagt til saka.

Ved måling på byggeteikningane finn me at leiligheita er ca 8,2m*10,4 m = 85,3 m2 (som sagt skal alt areal innanfor ytterveggane teljast med i BRA). I arealoversikta i byggesaka er denne leiligheita oppgitt til å vera 85,8 m2.
Eg ser det framleis slik at det berre er leiligheita som er oppgitt til 85 m2 i prislista under, og at sportsboda i kjellaren på 5m2 kjem i tillegg. P-rom er oppgitt til 79 m2. Dette er også utan innvendig bod.

Mvh

Anngunn Marie Gullbrå

Fra: Annbjørg Lyssand <annbjorg.lyssand@gmail.com>
Sendt: tirsdag 4. april 2023 09:18
Til: Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>
Emne: Re: Klage til kart og oppmålingsavdelinga

Hei,

Legger ved tegning av leilighet, som viser at den innvendig er som målene i prislisten, 79 kvm.

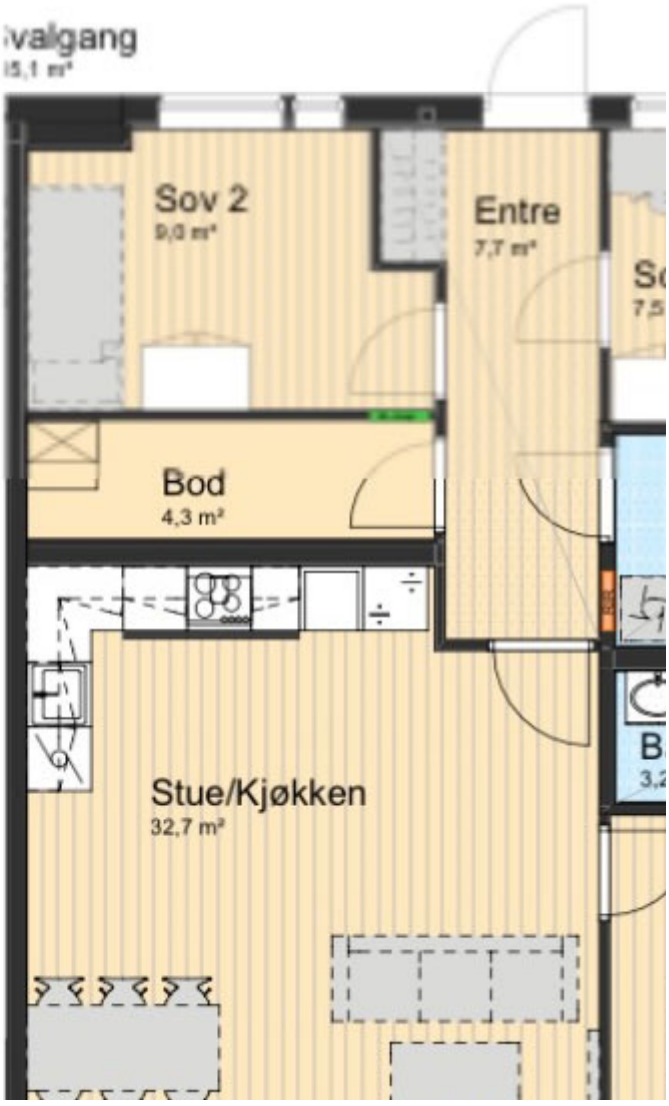
Plassering innventar er orienterende

SALG

LØYPETONA HUS 2

Leilighetsplan - SALG

Seksjonsnr.	:	2320
Leilighetsnr.	:	-
Leilighetstype	:	E1
BRA	:	85,5 m²



Prisliste

Løypetona Trinn 3-2

Eiendom	BRA m²	P-rom m²	Antall soverom	Salgspris	Omkos
Lø2102	59	54	2		
Lø2103*	59	54	2	2 990 000	4 5
Lø2205	59	54	2	2 990 000	4 5
Lø2206	54	51	1		
Lø2208*	85	80	3	3 990 000	6 1
Lø2209	85	79	3	3 990 000	6 1
Lø2210	75	71	2		
Lø2211	75	71	2	3 390 000	5 5
Lø2212	76	71	2	3 390 000	5 5
Lø2318	54	51	1	2 650 000	4 3

Jeg legger også ved prislisten fra salgsoppgaven, min leilighet er nr 2320, som viser areal inkludert bod i garasjeanlegg, 85 kvm.

Med vennlig hilsen
Annbjørg Lyssand

man. 3. apr. 2023 kl. 12:34 skrev Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>:

> Til registrering av Klagesak.
>
> Klager vert oppmoda om å senda inn omtala salsprospekt.
>
> Med helsing
>
> **Anngunn Marie Gullbrå** | Avdelingsingeniør Kart og Oppmåling
>
> Telefon: +47 56 17 11 81
>
> Innbyggjarservice: +47 56 37 50 00
> www.alver.kommune.no
>
> ALVER
> KOMMUNE

Fra: Annbjørg Lyssand <annbjorg.lyssand@gmail.com>
Sendt: mandag 3. april 2023 13:25
Til: Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>
Emne: Re: Klage til kart og oppmålingsavdelinga

Hei,
Takk for mail.

Det jeg har vanskelig for å forstå er hvordan BRA for dere blir 90kvm. Etter tegninger så måler leiligheten 80 kvm innvendig. Utbygger oppgir i salgsprospekt BRA til 85, som er inklusiv utvendig bod.

Jeg ønsker derfor dette registrert som en klage.

Med vennlig hilsen
Annbjørg Lyssand

man. 3. apr. 2023 kl. 12:15 skrev Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>:

> Hei
>
> Viser til spm om gjennomgang av BRA for din seksjon nr 20 i eigarseksjonssameiget gbnr 323/616.
>
> BRA (bruksareal) er alt areal innanfor omsluttande (ytter)veggar. Dette betyr at alle innerveggar, trapper, sjakter, piper mm tel med i dette arealet. BRA vert altså bestemt ved lengste heile innvendige breidde av leiligheita * lengste heile innvendige lengde av leiligheita- utan fråtrekk.

For din seksjon nr 20 er BRA i matrikkelen registrert til 90, 8 m2, tilsvarande som for seksjon 19, som er dei 2 leiligheitene som er like store i denne etasjen.

I arealoversikta frå utbyggar er desse 2 bueiningane TYPE E-3, 4-rom og har oppgitt BRA på 85,8 m2. Areal på utebod/er skal også reknast med i BRA for brukseininga i matrikkelen. Det er difor lagt til 5 m2 bodareal (som ligg i garasjeplane i bygget), og totalt BRA vert då 90,8m2 for din eigarseksjon.

Brøken for din eigarseksjon er fastsatt ca ut i frå størrelsen på sjølve leiligheita, og er i ditt tilfelle 855/30977, noko som viser til leilighеit på 85,5m2 (85,8 i arealoversikta). (til orientering så vert areal på 90 m2 også rekna som over 90m2).

Dersom du framleis meiner registrert BRA er feil for din leilighеit må du senda inn ny klage som må behandlast som ei klagesak i kommunen.

Med helsing

Anngunn Marie Gullbrå | Avdelingsingeniør Kart og Oppmåling

Telefon: +47 56 17 11 81

Innbyggjarservice: +47 56 37 50 00
www.alver.kommune.no

ALVER
KOMMUNE

Fra: Postmottak Alver <post@alver.kommune.no>
Sendt: fredag 31. mars 2023 12:43
Til: Anngunn Marie Gullbrå <anngunn.gullbra@alver.kommune.no>
Emne: VS: Klage til kart og oppmålingsavdelinga

Hei
Svarer du ut på dette her eller vil du ha ei sak på det ??

Mvh

Lilli Ann Dyrkolbotn| konsulent dokumentsenteret

Telefon: 56 37 51 29

Innbyggjarservice: +47 56 37 50 00
www.alver.kommune.no

<img border="0" width="213" height="54" id="x_m_-4384416069307056513x_Bilde_x0020_2" style="width:2.2187in; height:.5625in"

src="data:text/html;base64,PCFET0NUWVBFIGh0bWw+IDxodG1sIGRpcj1sdHIgeG1sbnM9aHR0cDovL3d3dy53My
5vcmcvMTk5OS94aHRtbCB0cmFuc2xhdGU9bm8+IDxoZWFkPiA8bWV0YSBjaGFyc2V0PXV0Zi04PiA8bWV0YSBodH
RwLWVxdWl2PVgtVUEtQ29tcGF0aWJsZSBjb250ZW50PSJJRT1lZGdlIj4gPG1ldGEgaHR0cC1lcXVpdj1wcmFnbWEgY2
9udGVudD1uby1jYWNoZT4gPG1ldGEgbmFtZT12aWV3cG9ydCBjb250ZW50PSJ3aWR0aD1kZXZpY2Utd2lkdGgsaW
5pdGlhbC1zY2FsZT0xLHVzZXItc2NhbGFibGU9MCI+IDxtZXRhIG5hbWU9ZZ29vZ2xlIHZhbHVlPW5vdHJhbnNsYXRlPiA
8bWV0YSBuYW1lPWZvcm1hdC1kZXRlY3Rpb24gV0dudGVudD0idGVsZXBob25lPW5vIj4gPG1ldGEgbmFtZT1zY3Jpc
HRWZXIgY29udGVudD0yMDIzMDMyNDAwOC4xMz4gPG1ldGEgbmFtZT1waHlzaWNhbFJpbmcgY29udGVudD1XVz
4gPG1ldGEgbmFtZT1lbnZpcm9ubWVudCBjb250ZW50PVByb2Q+IDxtZXRhIG5hbWU9Ym9vdEZsaWdodHMgY29ud
GVudD1md2stYW5hbHl0aWNzLWFkZG9ucyxhdXRoLWdldEF1dGhUb2tlblYyPiA8bWV0YSBuYW1lPWNkblVybCBjb
250ZW50PS8vcmVzLWgzLnB1YmxpYy5jZG4ub2ZmaWNlLm5ldC8+IDxtZXRhIG5hbWU9YmFja3VwQ2RuVXJsIGNvbn
RlbnQ9Ly9yZXMuY2RuLm9mZmljZS5uZXQvPiA8bWV0YSBuYW1lPWNkbkNvbnRhaW5lciBjb250ZW50PSJmaWx
lcnBjb250ZW50PSJmaWxlcyJ9LmNkbi5vZmZpY2UubmV0L2Fzc2V0cy9tYWlsL3B3YS92
MS9wbmdzL2FwcGxlLXRvdWNoLWljb24ucG5nPiA8bm9zY3JpcHQ+SmF2YVNjcmlwdCBtdXN0IGJlIGVuYWJsZWQu
PC9ub3Njcmlwd D4gPHRpdGxlPk91dGxvb2s8L3RpdGxlPiA8c3R5bGU+QGZvbnQtZmFjZXtmb250LWZhbWlseTon
2Vnb2UgVUkgV2VzdEV1cm9wZWFuJztzcmM6bG9jYWwoJ1NlZ29lIFVJIExpZ2h0JyksbG9jYWwoJ1NlZ29lIFdQIExpZ
2h0JyksdXJsKC8vcmVzLWgzLnB1YmxpYy5jZG4ub2ZmaWNlLm5ldC9hc3NldHNzL21haWwvZm9udHMvdjEvZm9ud
HMvc2Vnb2V1aS1saWdodC5lb3Q/I2llZml4KSBmb3JtYXQoJ2VtYmVkZGVkLW9wZW50eXBlJyksdXJsKC8vcmVzLWg
zLnB1YmxpYy5jZG4ub2ZmaWNlLm5ldC9hc3NldHMvbWFpbC9mb250cy92MS9mb250cy9zZWdvZXVpLWJlZ3VsYXIuZW90KSB
kZvZmYpIGZvcm1hdCgnd29mZicpLHVybCgvL3Jlcy1oMy5wdWJsaWMuY2RuLm9mZmljZS5uZXQvYXNzZXRzL21haW
wvZm9udHMvdjEvZm9udHMvc2Vnb2V1aS1saWdodC50dGYpIGZvcm1hdCgndHJ1ZXR5cGUnKTtmb250LXdlaWdo
dDoxMDA7Zm9udC1zdHlsZTpub3JtYWx9QGZvbnQtZmFjZXtmb250LWZhbWlseTonU2Vnb2UgVUkgV2VzdEV1cm9
wZWFuJztzcmM6bG9jYWwoJ1NlZ29lIFVJJyksbG9jYWwoJ1NlZ29lIFdQJyksdXJsKC8vcmVzLWgzLnB1YmxpYy5jZG4u
b2ZmaWNlLm5ldC9hc3NldHMvbWFpbC9mb250cy92MS9mb250cy9zZWdvZXVpLXJlZ3VsYXIuZW90PyNpZWZpeCk
gZm9ybWF0KCdlbWJlZGRlZC1vcGVudHlwZScpLHVybCgvL3Jlcy1oMy5wdWJsaWMuY2RuLm9mZmljZS5uZXQvYXNz
ZXRzL21haWwvZm9udHMvdjEvZm9udHMvc2Vnb2V1aS1yZWd1bGFyLndvZmYpIGZvcm1hdCgnd29mZicpLHVybCg
vL3Jlcy1oMy5wdWJsaWMuY2RuLm9mZmljZS5uZXQvYXNzZXRzL21haWwvZm9udHMvdjEvZm9udHMvc2Vnb2V1a
S1yZWd1bGFyLnR0ZikgZm9ybWF0KCd0cnVldHlwZScpO2ZvbnQtd2VpZ2h0OjQwMDtmb250LXN0eWxlOm5vcm1h
bH1AZm9udC1mYWNle2ZvbnQtZmFtaWx5OkZhYnJpY01ETDJJY29ucztzcmM6dXJsKCcvL3Jlcy1oMy5wdWJsaWMuY2R
uLm9mZmljZS5uZXQvb3dhbWFpbC8yMDIzMDMyNDAwOC4xMy9yZXNvdXJjZXMvZm9udHMvbzM2NWljb25zLW1
kbDIud29mZicpIGZvcm1hdCgnd29mZicpLHVybCgnLy9yZXMtaDMucHVibGljLmNkbi5vZmZpY2UubmV0L293YW1h
aWwvMjAyMzAzMjQwMDguMTMvcmVzb3VyY2VzL2ZvbnRzL28zNjVpY29ucy1tZGwyLnR0ZikgZm9ybWF0KCd0cnVl
ZXR5cGUnKTtmb250LXdlaWdodDo0MDA7Zm9udC1zdHlsZTpub3JtYWx9QGZvbnQtZmFjZXtmb250LWZhbWlseTpv
ZmZpY2UzNjVpY29ucztzcmM6dXJsKCcvL3Jlcy1oMy5wdWJsaWMuY2RuLm9mZmljZS5uZXQvb3dhbWFpbC8yMDIz
MDMyNDAwOC4xMy9yZXNvdXJjZXMvZm9udHMvb2ZmaWNlMzY1aWNvbnMuZW90PycpO3NyYzp1cmwoJy8vcm

VzLWgzLnB1YmxpYy5jZG4ub2ZmaWNlLm5ldC9vd2FtYWlsLzIwMjMwMzI0MDA4LjEzL3Jlc291cmNlcy9mb250cy9v
ZmZpY2UzNjVpY29ucy5lb3Q/I2llZml4JykgZm9ybWF0KCdlbWJlZGRlZC1vcGVudHlwZScpLHVybCgnLy9yZXMtaDMu
cHVibGljLmNkbi5vZmZpY2UubmV0L293YW1haWwvMjAyMzAzMjQwMDguMTMvcmVzb3VyY2VzL2ZvbnRzL29mZ
mljZTM2NWljb25zLndvZmY/JykgZm9ybWF0KCd3b2ZmJyksdXJsKCcvL3Jlcy1oMy5wdWJsaWMuY2RuLm9mZmljZS
5uZXQvb3dhbWFpbC8yMDIzMDMyNDAwOC4xMy9yZXNvdXJjZXMvZm9udHMvb2ZmaWNlMzY1aWNvbnMudHR
mPycpIGZvcm1hdCgndHJ1ZXR5cGUnKSx1cmwoJy8vcmVzLWgzLnB1YmxpYy5jZG4ub2ZmaWNlLm5ldC9vd2FtYWls
LzIwMjMwMzI0MDA4LjEzL3Jlc291cmNlcy9mb250cy9vZmZpY2UzNjVpY29ucy5zdmc/I29mZmljZTM2NWljb25zJykg
Zm9ybWF0KCdzdmcnKTtmb250LXdlaWdodDo0MDA7Zm9udC1zdHlsZTpub3JtYWx9I3ByZWxvYWREaXZ7aGVpZ2h
0OjFweDttYXJnaW4tYm90dG9tOi0xcHg7b3ZlcmZsb3c6aGlkZGVuO3Zpc2liaWxpdHk6aGlkZGVufSNsb2FkaW5nU2
NyZWVue3Bvc2l0aW9uOmZpeGVkO3RvcDowO2JvdHRvbTowO2xlZnQ6MDtyaWdodDowO2JhY2tncm91bmQtY29
sb3I6I2ZmZn0jbG9hZGluZ0xvZ297cG9zaXRpb246Zml4ZWQ7dG9wOmNhbGMoNTB2aCAtIDkwcHgpO2xlZnQ6Y2Fs
Yyg1MHZ3IC0gOTBweCk7d2lkdGg6MTgwcHg7aGVpZ2h0OjE4MHB4fSNNU0xvZ297cG9zaXRpb246Zml4ZWQ7Ym9
0dG9tOjM2cHg7bGVmdDpjYWxjKDUwdncgLSA1MHB4KX0uZGFyayAjbG9hZGluZ1NjcmVlbntiYWNrZ3JvdW5kLWN
vbG9yOiMzMzN9LmRhcmtOZXcgI2xvYWRpbmdTY3JlZW57YmFja2dyb3VuZC1jb2xvcjojMWYxZjFmfTwvc3R5bGU+
IDxzY3JpcHQgbm9uY2U9ZkhWZFBFWU1OT25iRVF2MHkvQmswdz09PnRyeXtpZigibG9jYWxTdG9yYWdlIiluIHdpb
mRvdyl7dmFyIHVzZXJOb3JtYWxpemVkVGhlbWU9d2luZG93LmxvY2FsU3RvcmFnZS5nZXRJdGVtKCJVc2Vyc05vcm1
hbGl6ZWRUaGVtZSIpO3VzZXJOb3JtYWxpemVkVGhlbWUmJi9cLmRhcmskLy50ZXN0KHVzZXJOb3JtYWxpemVkVGh
lbWUpJiZkb2N1bWVudC5kb2N1bWVudEVsZW1lbnQuY2xhc3NMaXN0LmFkZCgiZGFyayIpLHVzZXJOb3JtYWxpemV
kVGhlbWUmJi9cLmRhcmtcLm5ldyQvLnRlc3QodXNlck5vcm1hbGl6ZWRUaGVtZSkmJmRvY3VtZW50LmRvY3VtZW5
0RWxlbWVudC5jbGFzc0xpc3QuYWRkKCJkYXJrTmV3Iik7dmFyIHB3YWJhcmNvbG9yPXdpbmRvdy5sb2NhbFN0b3Jh
Z2UuZ2V0SXRlbSgiUHdhVGhlbWUiKTtpZihwd2FiYXJjb2xvcil7dmFyIHRoZW1ldGFnPWRvY3VtZW50LmdldEVsZW1l
bnRzQnlOYW1lKCJ0aGVtZS1jb2xvciIpO3RoZW1ldGFnJiZ0aGVtZXRhZy5sZW5ndGgmJnRoZW1ldGFnWzBdLnNldEF0
dHJpYnV0ZSgiY29udGVudCIscHdhYmFyY29sb3IpfX19Y2F0Y2goZSl7fTwvc2NyaXB0PiA8c2NyaXB0IG5vbmNlPWZIV
mRQRVlNTk9uYkVRdjB5L0JrMHc9PT5mdW5jdGlvbiBsb2dFcnJvcihvLG4scixlLGEsSl7d2luZG93Lm93YUVycm9ySGF
uZGxlcj93aW5kb3cub3dhRXJyb3JIYW5kbGVyKG8sbixyLGUsYSxpKTp3aW5kb3cub3dhQmFja2ZpbGxlZEVycm9ycy5
wdXNoKGFyZ3VtZW50cyl9d2luZG93LkZhYnJpY0NvbmZpZz17Zm9udEJhc2VVcmw6bnVsbH0sd2luZG93Lm93YUJhY
2tmaWxsZWRFcnJvcnM9W10sd2luZG93Lm9uZXJyb3I9bG9nRXJyb3IsIm9udW5oYW5kbGVkcmVqZWN0aW9uIinlu
IHdpbmRvdyYmd2luZG93LmFkZEV2ZW50TGlzdGVuZXIoInVuaGFuZGxlZHJlamVjdGlvbiIsKGZ1bmN0aW9uKG8pe3Z
hciBuPW8mJm8ucmVhc29ufHwiW25vIHJlYXNvbiBnaXZlbl0iO24gaW5zdGFuY2VvZiBFcnJvcj9sb2dFcnJvcigiVW5oY
W5kbGVkIFJlamVjdGlvbjogIituLCIiLDAsMCxuKTpuLnJlc3BvbnNlRXJyb3JNZXNzYWdlJiZuLmNhbGxzdGFja0F0UmVx
dWVzdCYmbiBpbnN0YW5jZW9mIFJlc3BvbnNlP2xvZ0Vycm9yKG4ucmVzcG9uc2VFcnJvck1lc3NhZ2UsIiIsdm9pZCA
wLHZvaWQgMCx2b2lkIDAsbi5jYWxsc3RhY2tBdFJlcXVlc3QpOmxvZ0Vycm9yKCJVbmhhbmRsZWQgUmVqZWN0aW
9uOiAiKygic3RyaW5nIj09dHlwZW9mIG4/bjpKU09OLnN0cmluZ2lmeShuKSkpfSkpLHdpbmRvdy5vbmxvYWQ9ZnVu
Y3Rpb24oKXt0cnl7IXNlbGYuT3dhJiZzZWxmLmxvY2F0aW9uJiZzZWxmLmxvY2F0aW9uLnNlYXJjaCYmLTE9PXNlbGY
ubG9jYXRpb24uc2VhcmNoLmluZGV4T2YoImd1bHAiKSYmd2luZG93LmxvY2F0aW9uLmFzc2lnbigiL293YS9hdXRoL2
Zyb3dueS5hc3B4P2JyZXQ9ZmFpbCZlc3JjPUluZGV4UGFnZUluY29tcGxldGUmYXBwPU1haWwiKX1jYXRjaChvKXt9fT
wvc2NyaXB0PiA8c2NyaXB0IG5vbmNlPWZIVmRQRVlNTk9uYkVRdjB5L0JrMHc9PT50cnl7IWZ1bmN0aW9uKCl7aWY
oIlBlcmZvcm1hbmNlTG9uZ1Rhc2tUaW1pbmciaW4gd2luZG93KXt2YXIgZT13aW5kb3cuX190dGk9e2U6W119O2Uu
bz1uZXcgUGVyZm9ybWFuY2VPYnNlcnZlcigoZnVuY3Rpbil7ZS5lPWUuZS5jb25jYXQobi5nZXRFbnRyaWVzKCkpf
SkpLGUuby5vYnNlcnZlKHtlbnRyeVR5cGVzOlsibG9uZ3Rhc2siXX0pfX0oKX1jYXRjaChlKXt9PC9zY3JpcHQ+IDxzY3JpcH
Qgbm9uY2U9ImZIVmRQRVlNTk9uYkVRdjB5L0JrMHc9PSI+LyohIEZvciBsaWNlbnNlIGluZm9ybWF0aW9uIHBsZWFzZ
SBzZWUgb3dhLm1haWxpbmRleC5qcy5MSUNFTlNFLnR4dCAqLwooKCk9Pnt2YXIgZSx0LG4scixvPXs1NjYxMjooZSx0
LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHtfOigpPT5nfSk7dmFyIHI9big2MDQxOTEpO2NvbnN0IG89bmV3IHIuSGQ
oKCgpPT5Qcm9taXNlLmFsbChbbi5lKDkyNTY3MSksbi5lKDIwMzkxOCksbi5lKDUyNjM3KSxuLmUoOTMyNTU3KSxuL
mUoOTU2MzM3KSxuLmUoNTc5MjM4KSxuLmUoMTYwMjUpLG4uZSgxODgzOCksbi5lKDQ1NTg1MCksbi5lKDczMz
YxNSksbi5lKDIxNzQ4Mykksbi5lKDM0MjEwNiksbi5lKDMwOTU5OCksbi5lKDc3NTQ4Miksbi5lKDg4MjI3MCksbi5lKDg
2MjYwMCksbi5lKDY3MTIyKSxuLmUoMTU5NTEwKSxuLmUoMTU1ODY2KSxuLmUoNTAxNjk3KV0pLnRoZW4obi5ia
W5kKG4sMjE4Nzg4KSkpKSxpPW5ldyByLl81KG8sKGU9PmUuZ2V0TWFpbEJvb3RzdHJhcE9wdGlvbnMpKSxzPW5ldy
ByLkhkKCgoKT0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4uZSgyMDM5MTgpLG4uZSg1MjYzNyksbi5lKDkzMj
U1Nyksbi5lKDk1NjMzNyksbi5lKDU3OTIzOCksbi5lKDE2MDI1KSxuLmUoMTg4MzgpLG4uZSg0NTU4NTApLG4uZSg3
MzM2MTUpLG4uZSgyMTc0ODMpLG4uZSgzMDk1OTgpLG4uZSg3NzU0ODIpLG4uZSg4ODIyNzApLG4uZSg4NjI2MD
ApLG4uZSgyOTE5OTIpLG4uZSg2NzEyMiksbi5lKDE1OTUxMCksbi5lKDE1NTg2Niksbi5lKDkxNzM1MildKS50aGVuKG
4uYmluZChuLDk2NDkyKSkpKSxhPW5ldyByLl81KHMsKGU9PmUuZ2V0Q2FsZW5kYXJCb290c3RyYXBPcHRpb25zKSk
sYz1uZXcgci5IZCgoKCk9PlByb21pc2UuYWxsKFtuLmUoOTI1NjcxKSxuLmUoNTI2MzcpLG4uZSg5MzI1NTcpLG4uZSg1
OTg5KSxuLmUoMjA5NDE1KSxuLmUoMzQ4MTM5KSxuLmUoOTM2OTE1KSxuLmUoODI3NjcwKSxuLmUoNTQ0MjU
yKSxuLmUoODUxMjU4KSxuLmUoMjI2NzgpLG4uZSg0ODQ0OTEpLG4uZSg4OTMyNDYpLG4uZSg5ODY1Miksbi5lKDI

wODY4Myksbi5lKDYzNzQ1OSksbi5lKDM3Mzg2Niksbi5lKDEwMDYzMiksbi5lKDc5NjY2MCksbi5lKDk5MDM5NyldKS
50aGVuKG4uYmluZChuLDk1NTI1NSkpKSksdT1uZXcgci5fNShjLChlPT5lLmdldFBlb3BsZUJvb3RzdHJhcE9wdGlvbnMp
KSxsPW5ldyByLkhkKCgoKT0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4uZSg1MjYzNyksbi5lKDkzMjU1Nyksbi5l
KDk1NjMzNyksbi5lKDU3OTIzOCksbi5lKDE2MDI1KSxuLmUoMTg4MzgpLG4uZSg0NTU4NTApLG4uZSg3MzM2MTU
pLG4uZSgyMTc0ODMpLG4uZSg3NzU0ODIpLG4uZSg4ODIyNzApLG4uZSg4NjI2MDApLG4uZSgzOTk0NTgpLG4uZSgz
OTM2NzQpLG4uZSg1OTg5KSxuLmUoNzkxNTY2KSxuLmUoNDI5ODkyKSxuLmUoNDk0MDQ0KSxuLmUoMjA3MzMp
XSkudGhlbihuLmJpbmQobiw3NjIzNCkpKSksSD1uZXcgci5fNShsLChlPT5lLmdldEZpbGVzQm9vdHN0cmFwT3B0aW9
ucykpLGQ9bmV3IHIuSGQoKCgpPT5Qcm9taXNlLmFsbChbbi5lKDkyNTY3MSksbi5lKDIwMzkxOCksbi5lKDUyNjM3KS
xuLmUoOTMyNTU3KSxuLmUoNTc5MjM4KSxuLmUoMTYwMjUpLG4uZSgxODgzOCksbi5lKDQ1NTg1MCksbi5lKDcz
MzYxNSksbi5lKDIxNzQ4Myksbi5lKDMwOTU5OCksbi5lKDc3NTQ4Miksbi5lKDg4MjI3MCksbi5lKDY3MTIyKSxuLmUo
MTU5NTEwKSxuLmUoMTU1ODY2KSxuLmUoMzkzNjc0KSxuLmUoNTk4OSksbi5lKDQzNjg1Niksbi5lKDc5NTg3NSldK
S50aGVuKG4uYmluZChuLDQyODQ0MCkpKSksZj1uZXcgci5fNShkLChlPT5lLmdldE1haWxEZWVwTGlua0Jvb3RzdHJh
cE9wdGlvbnMpKSxTPW5ldyByLkhkKCgoKT0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4uZSgyMDM5MTgpLG4
uZSg1MjYzNyksbi5lKDkzMjU1Nyksbi5lKDU3OTIzOCksbi5lKDE2MDI1KSxuLmUoMTg4MzgpLG4uZSg0NTU4NTApLG
4uZSg3MzM2MTUpLG4uZSgyMTc0ODMpLG4uZSg3NzU0ODIpLG4uZSg4ODIyNzApLG4uZSgzOTM2NzQpLG4uZSg1
OTg5KSxuLmUoNDI5ODkyKSxuLmUoMjA5NDE1KSxuLmUoNTQ0MjUyKSxuLmUoMTM3MzI3KSxuLmUoODkzMjQ2
KSxuLmUoMTM2ODEyKV0pLnRoZW4obi5iaW5kKG4sNzcyOTExKSkpKSxwPW5ldyByLl81KFMsKGU9PmUuZ2V0QX
BwSG9zdEJvb3RzdHJhcE9wdGlvbnMpKSxDPW5ldyByLkhkKCgoKT0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4
uZSgyMDM5MTgpLG4uZSg1MjYzNyksbi5lKDM5MzY3NCksbi5lKDQ5NDA0NCksbi5lKDM3MTc1Myksbi5lKDYyODIz
MSksbi5lKDU0NDI1Miksbi5lKDg1MTI1OCksbi5lKDU5ODE1Miksbi5lKDQ4NDQ5MSksbi5lKDg5MzI0Niksbi5lKDk4Nj
E5Miksbi5lKDk4NjUyKSxuLmUoMjA4NjgzKSxuLmUoMTQyMTkwKSxuLmUoNjM3NDU5KSxuLmUoMzczODY2KSxuL
mUoMTAwNjMyKSxuLmUoNjE0MjQwKV0pLnRoZW4obi5iaW5kKG4sMTgzMjIzKSkpKSx2PW5ldyByLl81KEMsKGU9
PmUuZ2V0Q2FsZW5kYXJEZWVwTGlua0Jvb3RzdHJhcE9wdGlvbnMpKSxoPW5ldyByLkhkKCgoKT0+UHJvbWlzZS5hb
GwoW24uZSg5MjU2NzEpLG4uZSgyMDM5MTgpLG4uZSg1MjYzNyksbi5lKDkzMjU1Nyksbi5lKDk1NjMzNyksbi5lKD
U3OTIzOCksbi5lKDE2MDI1KSxuLmUoMTg4MzgpLG4uZSg0NTU4NTApLG4uZSg3MzM2MTUpLG4uZSgyMTc0ODM
pLG4uZSgzNDIxMDYpLG4uZSgzMDk1OTgpLG4uZSg3NzU0ODIpLG4uZSg4ODIyNzApLG4uZSg4NjI2MDApLG4uZSgy
OTE5OTIpLG4uZSg2NjIxOTkpLG4uZSgxNTk1MTApLG4uZSg1NThlMyldKS50aGVuKG4uYmluZChuLDY1NDM0NikpKS
ksbT1uZXcgci5fNShoLChlPT5lLmdldEdyb3BsZnRzdHJhcE9wdGlvbnMpKSxJPW5ldyByLl81KG5ldyBkLHtlPT5lLm
dldEdyb3BsZnRzdHJhcE9wdGlvbnMpKSxBPW5ldyByLkhkKCgoKT0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4
uZSgyMDM5MTgpLG4uZSg1MjYzNyksbi5lKDM5MzY3NCksbi5lKDQ5NDA0NCksbi5lKDM3MTc1Myksbi5lKDYyODIz
MSksbi5lKDU0NDI1Miksbi5lKDg1MTI1OCksbi5lKDU5ODE1Miksbi5lKDQ4NDQ5MSksbi5lKDg5MzI0Niksbi5lKDk4Nj
E5Miksbi5lKDk4NjUyKSxuLmUoMjA4NjgzKSxuLmUoMTQyMTkwKSxuLmUoNjM3NDU5KSxuLmUoMzczODY2KSxuL
mUoMTAwNjMyKSxuLmUoNzk2NjYwKSxuLmUoMTQyNTk3KV0pLnRoZW4obi5iaW
W5kKG4sODQ5NzE0KSkpKSwoZT0+ZS5nZXRFdmVudGlmeUJvb3RzdHJhcE9wdGlvbnMpKSxBPW5ldyByLkhkKCgoK
T0+UHJvbWlzZS5hbGwoW24uZSg5MjU2NzEpLG4uZSgyMDM5MTgpLG4uZSg1MjYzNyksbi5lKDkzMjU1Nyksbi5lKD
U3OTIzOCksbi5lKDE2MDI1KSxuLmUoMTg4MzgpLG4uZSg0NTU4NTApLG4uZSg3MzM2MTUpLG4uZSgyMTc0ODM
pLG4uZSg3NzU0ODIpLG4uZSg4ODIyNzApLG4uZSgyOTE5OTIpLG4uZSgxNTk1MTApLG4uZSgxNTU4NjYpLG4uZSgzO
TM2NzQpLG4uZSg1OTg5KSxuLmUoNDI5ODkyKSxuLmUoNDk0MDQ0KSxuLmUoMTE4OTEwKV0pLnRoZW4obi5iaW
W5kKG4sMzI3NzYxKSkpKSxnPShlLHQpPT5lLmVxKHQsZ2V0QnVmZmVyKSksdz1lPT5lLmVxKGUsZ2V0QnVmZmVyKS
xiPShlLHQpPT57dmFyIG49ZS5sZW5ndGgsbz1uZXcgVWludDhBcnJheSg0KTtyZXR1cm4gby5zZXRVaW50MzIoMCx
uLCEwKSxvLnNldChlLDQpLHR9LHY9KGUsdCxuKT0+e2lmKHQlNCE9MCl0aHJvdyBuZXcgUmFuZ2VFcnJvcigiQnl0
ZU9mZnNldCBpcyBub3QgNC1hbGlnbmVkIik7aWYoKGUuYnl0ZUxlbmd0aC10KSU0IT0wKXRocm93IG5ldyBSYW5nZU
Vycm9yKCJMZW5ndGggaXMgbm90IGEgbXVsdGlwbGUgb2YgNCIpO2lmKHQrbj5lLmJ5dGVMZW5ndGgpdGhyb3cgbmV3
IFJhbmdlRXJyb3IoIk9mZnNldCBpcyBvdXQgb2YgYm91bmRzIik7cmV0dXJuIG5ldyBEYXRhVmlldyhlLmJ1ZmZlcix
lLmJ5dGVPZmZzZXQrdCxuKX0sRT0oZSx0KT0+e2lmKGUubGVuZ3RoPj10KXJldHVybiBlO2lmKCJzdHJpbmciPT
10eXBlb2YgZSl0aHJvdyBuZXcgVHlwZUVycm9yKCJFeHBlY3RlZCBhIHN0cmluZyIpO2NvbnN0IG49bmV3IFVpbnQ4
QXJyYXkodCk7cmV0dXJuIG4uc2V0KGUpLG59LEw9KGUsdCk9PmUuZXF1YWxzKHQsZ2V0QnVmZmVyKSxrPShlLHQsbj
0wKT0+e2NvbnN0IG89bmV3IFVpbnQ4QXJyYXkoZS5sZW5ndGgqdCk7bGV0IHI9bjtmb3IoY29uc3QgcyBvZiBlKXtp
ZihyPj1vLmxlbmd0aClicmVhazt2YXIgYT1zPDA/MDpzPjI1NT8yNTU6czttYXRoLnJhbmRvbSgpPGEvMjU1JiZyPG
8ubGVuZ3RoJiYoby5zZXRVaW50MTYocixhPDw4fGEsITApLHIrPTIpfXJldHVybiBvLnN1YmFycmF5KDAscil9LFI9KG
UsdCk9PnsoIm51bWJlciI9PXR5cGVvZiBlfHxlIGluc3RhbmNlb2YgTnVtYmVyKSYmKGU9QmlnSW50KGUpKTtsZXQg
bj0iIjtmb3IoO2UhPTBuOyluPSIwMTIzNDU2Nzg5YWJDREVGIltOdW1iZXIoZSYxNW4pXStuLGU+PjRuKTtyZXR1cm
4gbi5wYWRTdGFydCh0LCIwIil9LEY9KGUsdCk9PnsoIm51bWJlciI9PXR5cGVvZiBlfHxlIGluc3RhbmNlb2YgTnVtYmVy
KSYmKGU9QmlnSW50KGUpKTtsZXQgbj0iIjtmb3IoO2UhPTBuOyluPSIwMTIzNDU2Nzg5YWJDREVGIltOdW1iZXIoZSYxNW4pXStuLGU+PjRuKTtyZXR1cm
4gbi5wYWRTdGFydCh0LCIwIil9LEY9KGUsdCk9PnsoIm51bWJlciI9PXR5cGVvZiBlfHxlIGluc3RhbmNlb2YgTnVtYmVy

xOOigpPT5yLk4sWkE6KCk9PnIuWkF9KTt2YXIgcj1uKDcxMzA5Mil9LDg4Nzc3OihlLHQsbik9PnsidXNlIHN0cmljdCI7bi
5kKHQse2g6KCk9Pm8sczooKT0+cn0pO2xldCByPSExO2Z1bmN0aW9uIG8oKXtyPSEwfX0sMzc0ODQ3OihlLHQsbik9
PnsidXNlIHN0cmljdCI7bi5kKHQse2dBOigpPT5mLExfOigpPT5kLFdwOigpPT5ILERNOigpPT51LGNKOigpPT5sLEhHOig
pPT5yLkh9KTt2YXIgcj1uKDk3MDIzNiksbz1uKDE3NjUyNiksaT1uKDc3NDIyNikscz1uKDQyMjg2Nik7ZnVuY3Rpb24gY
ShlLHQsbixyLG8scyxhLHUpe2lmKHQmJihuPygwLGkuVHopKHQscik6byYmcz8oMCxpLlNiKSh0LG8sYCR7cn1fJHtzfW
ApOmModC5ldmVudE5hbWUscixuKSksZSl7aWYobilyZXR1cm4gdm9pZCBlLmFkZFRvUHJlZGVmaW5lZFdhdGVyZm
FsbChyLGEsdm9pZCAwLHUpO2lmKG8mJnMpcmV0dXJuIHZvaWQgZS5hZGRUb0N1c3RvbVdhdGVyZmFsbChvLGAk
e3J9XyR7c31gLGEpO2MoZS5ldmVudE5hbWUscixuKX19ZnVuY3Rpb24gYyhlLHQsbil7cy5nNC53YXJuKGBBZGRUaW
1pbmdUb1dhdGVyZmFsbEZhaWxlZCBkcDogJHtlfS4gY2hlY2twb2ludDogJHt0fS4gaXNQcmVkZWZpbmVkOiAke259
YCl9YXN5bmMgZnVuY3Rpb24gdShlLHQ9bnVsbCxuKXt2YXIgcixzO2lmKCFlfHwhMT09PShudWxsPT10P3ZvaWQgM
Dp0LmlzRW5hYmxlZCkpcmV0dXJuIG4oe30pO2NvbnN0IGM9bnVsbD09ZT92b2lkIDA6ZS5pc1BlcmZvcm1hbmNlRG
F0YXBvaW50LHU9ZSxsPWM/ZTp1LmRhdGFwb2ludDthKGwsbnVsbCxjLCJEYXRhX1MiLG51bGw9PShyPW51bGw9P
XU/dm9pZCAwOnUuaW5kZXhlcyk/dm9pZCAwOnJbMF0sbnVsbD09dT92b2lkIDA6dS5uYW1lLG51bGw9PXQ/dm9
pZCAwOnQuZGlzY2FyZElmRGVmaW5lZCk7Y29uc3QgSD0oMCxpLklYKShsKTtILnNldHRpbmdzPXsuLi5ILnNldHRpbm
dzLC4uLnR9LEguZGF0YVNvdXJjZT1udWxsO2NvbnN0IGQ9e3BlcmZEYXRhcG9pbnQ6SH0sZj1hd2FpdCBuKGQpO3Jl
dHVybiBudWxsIT09SC5kYXRhU291cmNlfHxILmRpZEV4ZWN1dGVHcWxRdWVyeXx8KEguZGF0YVNvdXJjZT1vLkRhd
GFTb3VyY2UuTk9fUVVFUlkpLGEobCxudWxsLGMsIkRhdGFfRSIsbnVsbD09KHM9bnVsbD09dT92b2lkIDA6dS5pbmR
leGVzKT92b2lkIDA6c1sxXSxudWxsPT11P3ZvaWQgMDp1Lm5hbWUsbnVsbD09dD92b2lkIDA6dC5kaXNjYXJkSWZEZ
WZpbmVkKSwoMCxpLkJfKShsLEgpLGZ9YXN5bmMgZnVuY3Rpb24gbChlLHQsbiwuLi5yKXt2YXIgcyxjLHUsbCxILGQs
ZixTO2NvbnN0IHA9ISghZS53ZWJXb3JrZXJEYXRhcG9pbnQmJiFlLmN1c3RvbVdlYldvcmtlckRhdGFwb2ludCk/ISEobn
VsbD09KHM9ZS53ZWJXb3JrZXJEYXRhcG9pbnQpP3ZvaWQgMDpzLmlzUGVyZkRhdGFwb2ludE9iamVjdCk6ISEobnV
sbD09KGM9ZS5kYXRhcG9pbnQpP3ZvaWQgMDpjLmlzUGVyZm9ybWFuY2VEYXRhcG9pbnQpLEM9ZS5jdXN0b21EY
XRhcG9pbnR8fGUuY3VzdG9tV2ViV29ya2VyRGF0YXBvaW50LHY9ZS5kYXRhcG9pbnR8fChudWxsPT0odT1lLmN1c3
RvbURhdGFwb2ludCk/dm9pZCAwOnUuZGF0YXBvaW50KSxoPWUud2ViV29ya2VyRGF0YXBvaW50fHwobnVsbD09
KGw9ZS5jdXN0b21XZWJXb3JrZXJEYXRhcG9pbnQpP3ZvaWQgMDpsLmRhdGFwb2ludCk7YSh2fHxudWxsLGh8fG51
bGwscCwiTmV0d29ya19TIixudWxsPT0oSD1udWxsPT1DP3ZvaWQgMDpDLmluZGV4ZXMpP3ZvaWQgMDpIW28uV
2F0ZXJmYWxsTWFwcGluZ3MuTkVUV09SS19SRVFVRVNUX1NUQVJUSU5HXSxudWxsPT1DP3ZvaWQgMDpDLm5hb
WUsbnVsbD09dD92b2lkIDA6dC5kaXNjYXJkSWZEZWZpbmVkLChudWxsPT1yP3ZvaWQgMDpyWzBdKT9yWzBdOnZ
vaWQgMCk7Y29uc3QgbT1hd2FpdCBuLmFwcGx5KG51bGwsciksST1vLkRhdGFTb3VyY2UuTkVUV09SSztyZXR1cm4
gZS5kYXRhcG9pbnQ/ZS5kYXRhcG9pbnQuYWRkRGF0YVNvdXJjZShJKTplLmN1c3RvbURhdGFwb2ludD9lLmN1c3Rvb
URhdGFwb2ludC5kYXRhcG9pbnQuYWRkVG9DdXN0b21XYXRlcmZhbGwobnVsbD09KGQ9ZS5jdXN0b21EYXRhcG9
pbnQuaW5kZXhlcyk/dm9pZCAwOmRbby5XYXRlcmZhbGxNYXBwaW5ncy5EQVRBX1NPVVJDRV0sYERhdGFTb3VyY
2VfJHtlLmN1c3RvbURhdGFwb2ludC5uYW1lfWAsbnVsbD09dD92b2lkIDA6dC5kaXNjYXJkSWZEZWZpbmVkLEkpOm
Uud2ViV29ya2VyRGF0YXBvaW50P2Uud2ViV29ya2VyRGF0YXBvaW50LmRhdGFTb3VyY2U9SToobnVsbD09KGY9ZS
5jdXN0b21XZWJXb3JrZXJEYXRhcG9pbnQpP3ZvaWQgMDpmLmRhdGFwb2ludCkmJigwLGkuU2IpKGUuY3VzdG9tV2
ViV29ya2VyRGF0YXBvaW50LmRhdGFwb2ludCxlLmN1c3RvbVdlYldvcmtlckRhdGFwb2ludC5pbmRleGVzW28uV2F0
ZXJmYWxsTWFwcGluZ3MuREFUQV9TT1VSQ0VdLCJEYXRhU291cmNlIixJKSxhKHZ8fG51bGwsaHx8bnVsbCxwLCJOZ
XR3b3JrX0UiLG51bGw9PShTPW51bGw9PUM/dm9pZCAwOkMuaW5kZXhlcyk/dm9pZCAwOlNbby5XYXRlcmZhbGx
NYXBwaW5ncy5ORVRXT1JLX1JFUVVFU1RfRU5ERURdLG51bGw9PUM/dm9pZCAwOkMubmFtZSxudWxsPT10P3Zv
aWQgMDp0LmRpc2NhcmRJZkRlZmluZWQsKG51bGw9PXI/dm9pZCAwOnJbMF0pP3JbMF06dm9pZCAwKSxtfWZ1
bmN0aW9uIEgoZSx0KXtkKGUpLGYoZSx0KX1mdW5jdGlvbiBkKGUpe2UuYWRkVG9QcmVkZWZpbmVkV2F0ZXJmY
WxsKCJSZW5kZXJfUyIsITApfWZ1bmN0aW9uIGYoZSx0LG4peygwLHIuSCkoKHI9PntlLmFkZFRvUHJlZGVmaW5lZFdh
dGVyZmFsbCgiUmVuZGVyX0UiLCEwKSx0fHxlLmhhc0VuZGVkfHxlLmVuZCgpLG4mJm4ocil9KSl9fSw5NzAyMzY6KG
UsdCxuKT0+eyJ1c2Ugc3RyaWN0IjtuLmQodCx7SDooKT0+b30pO3ZhciByPW4oMjY5Mzk5KTtmdW5jdGlvbiBvKGUp
eygwLHIuSlkpKCh0PT57c2V0VGltZW91dCgoKCk9PntlKHQpfSkpfSkpfX0sNzQ5OTg1OihlLHQsbik9PnsidXNlIHN0cml
jdCI7bi5kKHQse3BsOigpPT5mLHJUOigpPT5TLFZkOigpPT5zLEJHOigpPT5hLENaOigpPT5jLkMsVV86KCk9PnB9KTt2Y
XIgcj1uKDQyMjg2Nik7bGV0IG8saTtmdW5jdGlvbiBzKCl7dmFyIGU7cmV0dXJuIG51bGw9PW8mJihvPSJ1bmRlZmluZ
WQiIT10eXBlb2Ygc2VsZiYmbnVsbCE9KG51bGw9PShlPXNlbGYucGVyZm9ybWFuY2UpP3ZvaWQgMDplLnRpbWluZ
ykpLG99ZnVuY3Rpb24gYSgpe3ZhciBlO3JldHVybiBudWxsPT1pJiYoaT0idW5kZWZpbmVkIiE9dHlwZW9mIHNlbGYmJ
m51bGwhPShudWxsPT0oZT1zZWxmLnBlcmZvcm1hbmNlKT92b2lkIDA6ZS5nZXRFbnRyaWVzQnlOYW1lKSksaX12Y
XIgYz1uKDc3MjE5Nik7Y29uc3QgdT1bXSxsPVtdLEg9W107bGV0IGQ9ITA7ZnVuY3Rpb24gZihlLHQpeygwLHIuU1pK
CgoZSx0LG4sbyk9PntkJiYodD09ci5HdS5FcnJvciYmbC5wdXNoKHttZXNzYWdlOmUsZXJyb3I6b30pLHUucHVzaCh7b
WVzc2FnZTplLGxldmVsOnQsY29tcG9uZW50Om59KSl9KSksZShDKSx0KEMpLGEoKSYmKHNlbGYucGVyZm9ybWFu
Y2Uuc2V0UmVzb3VyY2VUaW1pbmdCdWZmZXJTaXplP3NlbGYucGVyZm9ybWFuY2Uuc2V0UmVzb3VyY2VUaW1p
bmdCdWZmZXJTaXplKDUwMCk6c2VsZi5wZXJmb3JtYW5jZS53ZWJraXRTZXRSZXNvdXJjZVRpbWluZ0J1ZmZlclNpem
UmJnNlbGYucGVyZm9ybWFuY2Uud2Via2l0U2V0UmVzb3VyY2VUaW1pbmdCdWZmZXJTaXplKDUwMCkpfWZ1bm

N0aW9uIFMoZSl7Y29uc3QgdD0oMCxjLkQpKGUpO3JldHVybnt0cmFjZXM6dSxlcnJvcnM6bCxuZXR3b3JrOkgsdXNh
Z2U6dH19ZnVuY3Rpb24gcCgpe2Q9ITF9ZnVuY3Rpb24gQygpe2QmJkgucHVzaChhcmd1bWVudHMpfX0sNzcyMTk
2OihlLHQsbik9PnsidXNlIHN0cmljdCI7bGV0IHI7bi5kKHQse0M6KCk9PmksRDooKT0+c30pO2NvbnN0IG89W107ZnV
uY3Rpb24gaShlLHQsbil7cj9yKGUsdCxuKTpvLnB1c2goe25hbWU6ZSxjdXN0b21EYXRhOnR9KX1mdW5jdGlvbiBzKG
Upe3JldHVybiByPWUsb319LDE3NjUyNjooZSx0LG4pPT57InVzZSBzdHJpY3QiO2Z1bmN0aW9uIHIoZSl7cmV0dXJuIk
NvbW1hbmRCYXIiPT09ZXx8IlNpbXBsaWZpZWRSaWJib24iPT09ZXx8Ik11bHRpTGluZVJpYmJvbiI9PT1lfHwiQ29tbW
FuZEJhclJpYmJvbiI9PT1lfW4uZCh0LHtEYXRhU291cmNlOigpPT5pLERhdGFwb2ludFN0YXR1czooKT0+byxXYXRlcmZh
bGxNYXBwaW5nczooKT0+cyxpc0NvbW1hbmRpbmdWaWV3QWN0aW9uU291cmNlOigpPT5yfSk7dmFyIG89KGU9
PihlLlN1Y2Nlc3M9IlN1Y2Nlc3MiLGUuU2VydmVyRXJyb3I9IlNlcnZlckVycm9yIixlLlVzZXJFcnJvcj0iVXNlckVycm9yIixlLl
NlcnZlckV4cGVjdGVkRXJyb3I9IlNlcnZlckV4cGVjdGVkRXJyb3IiLGUuQ2xpZW50RXJyb3I9IkNsaWVudEVycm9yIixlLlJlc
XVlc3RPb3RDb21wbGV0ZT0iUmVxdWVzdE5vdENvbXBsZXRlIixlLlRpbWVvdXQ9IlRpbWVvdXQiLGUuQmFja2dyb3V
uZFN1Y2Nlc3M9IkJhY2tncm91bmRTdWNjZXNzIixlKSkob3x8e30pLGk9KGU9PihlLk5FVFdPUks9Ik5FVFdPUksiLGUuT
kVUV09SS19HUUw9Ik5FVFdPUktfR1FMIixlLk5FVFdPUktfR0FURVdBWT0iTkVUV09SS19HQVRFV0FZIixlLlNFUlZJQ0
VfV09SS0VSPSJTRVJWSUNFX1dPUktfUiIsZS5JTkRFWERCPSJJTkRFWERCIixlLklOX01FTU9SWT0iSU5fTUVNT1JZIixlLk
5PX1FVRVJZPSJOT19RVUVSWSIsZSkpKGl8fHt9KSxzPShlPT4oZVtlLk5FVFdPUktfUkVRVUVTVF9TVEFSVElORz0wXT0i
TkVUV09SS19SRVFVRVNUX1NUQVJUSU5HIixlW2UuTkVUV09SS19SRVFVRVNUX0VOREVEPTFdPSJORVRXT1JLX1JFQU1JF
UVVFU1RfRU5ERUQiLGVbZS5EQVRBX1NPVVJDRT0yXT0iREFUQV9TT1VSQ0UiLGVbZS5EQVRBX0xPQURJTkc9MF09
IkRBVEFfTE9BRElORyIsZVtlLkRBVEFfTE9BREVEPTFdPSJEQVRBX0xPQURFRCIsZVtlLkdRTF9CUklER0VfUUVVRUk9Ml0
9IkdRTF9CUklER0VfUUVVRUlkiLGVbZS5HUUxfQlJJREdFX1JFU1VMVD0zXT0iR1FMX0JSSURHRV9SRVNVTFQiLGVbZS5
HUUxfQlJJREdFX0VSUk9SPTRdPSJHUUxfQlJJREdFX0VSUk9SIixlW2UuQ09ERV9MT0FESU5HPTBdPSJDT0RFX0xPQU
RJTkciLGVbZS5DT0RFX0xPQURFRD0xXT0iQ09ERV9MT0FERUQiLGUpKShzfHx7fSl9LDIyOTc2MDooZSx0LG4pPT57In
VzZSBzdHJpY3QiO24uZCh0LHtpWjooKT0+byxoaDooKT0+YSxzcTooKT0+SCx0ZjooKT0+ZH0pO3ZhciByPW4oNDkyO
TgyKTtmdW5jdGlvbiBvKGUpe2UuZGF0YXx8KGUuZGF0YT17fSksZS5kYXRhLkFwcD0oMCxyLk1xKSgpfXZhciBpPW4o
MTkzOTMzKSxzPW4oNTM4NjUyKTtmdW5jdGlvbiBhKCl7aWYoKDAsci5WJCkoKSlyZXR1cm4iaHR0cHM6Ly9ldS1vZ
mZpY2UuZXZlbnRzLmRhdGEubWljcm9zb2Z0LmNvbS8iK2kud0I7Y29uc3QgZT0oMCxpLmEkKSgpO2lmKGUpcmV0d
XJuIGU7Y29uc3QgdD0oMCxzLnVEKSgpO3JldHVybiJHY2NIaWdoIj09PXQ/Imh0dHBzOi8vdGIuZXZlbnRzLmRhdGEub
Wljcm9zb2Z0LmNvbS8iK2kud0I6IkRvRCI9PT10PyJodHRwczovL3BmLmV2ZW50cy5kYXRhLm1pY3Jvc29mdC5jb20vI
itpLndCOnZvaWQgMH12YXIgYz1uKDQyMjg2Nik7bGV0IHU9ITA7Y29uc3QgbD1bXTtmdW5jdGlvbiBIKCl7Yy5nNC5p
bmZvKGAgQW5hbHl0aWNzIEluaXRpYWxpemVkLiBQcm9jZXNzaW5nICR7bC5sZW5ndGh9IHF1ZXVlZCBldmVudHMuHM
uYCwiYW5hbHl0aWNzIiksdT0hMSxmdW5jdGlvbigpe2Zvcig7bC5sZW5ndGg+MDspe2NvbnN0e2Z1bmM6ZSxhcmd
zOnR9PWwucG9wKCk7ZihlLHQpfX0oKX1mdW5jdGlvbiBkKGUsLi4udCl7dT9sLnB1c2goe2Z1bmM6ZSxhcmdzOnR9
KTpmKGUsdCl9ZnVuY3Rpb24gZihlLHQpe2UuUXBwbHkobnVsbCx0KX19LDc3NDIyNjooZSx0LG4pPT57InVzZSBzdHJ
pY3QiO24uZCh0LHtoejooKT0+byxCXzooKT0+ZixvTzooKT0+dixTYjooKT0+YSxjczooKT0+aSxUejooKT0+cyxJWDooKT
0+ZCxkWjooKT0+Qyx1dDooKT0+aCxrJDooKT0+bSxJcDooKT0+YyxFTTooKT0+dSxCRTooKT0+SCxmQzooKT0+bH0p
O3ZhciByPW4oNDIyODY2KTtmdW5jdGlvbiBvKGUpdCxjXXsobnVsbD09ZT92b2lkIDA6ZS5pc1BlcmZEYXRhcG9pbnR
PYmplY3QpPyhlLmN1c3RvbURhdGF8fChlLmN1c3RvbURhdGE9e30pLGUuY3VzdG9tRGF0YVt0XT1uKTplJiZyLmc0Ln
dhcm4oYEludmFsaWRQZXJmRGF0YXBvaW50T2JqZWN0UGFzc2VkVG9BZGRDdXN0b21EYXRhOiBLZXk6ICR7dH0uIFZhbH
VlOiAke259YCl9ZnVuY3Rpb24gaShlLHQsbil7KG51bGw9PWU/dm9pZCAwOmUuaXNQZXJmRGF0YXBvaW50T2JqZ
WN0KSYmKGUud2F0ZXJmYWxsfHwoZS53YXRlcmZhbGw9e30pLG4/YShlLG4sdCk6cyhlLHQpKX1mdW5jdGlvbiBzK
GUsdCl7Y29uc3Qgbj1IKGUpO2Uud2F0ZXJmYWxsW2wodCldPW4udG9GaXhlZCgpfWZ1bmN0aW9uIGEoZSx0LG4s
byl7aWYoZSl7Y29uc3Qgcj1IKGUpLGk9dShuLHZvaWQgMD09PW8/cjpvKSxzPWModCk7ZS53YXRlcmZhbGxbbChzK
V09aX1lbHNlIHIuZzQud2FybihgTm8gJ3BlcmZEYXRhcG9pbnRPYmonIHdhcyBwYXNzZWQgdG8gJ2FkZFRvQ3VzdG9t
V2F0ZXJmYWxsJyBmb3IgY2hlY2twb2ludDogJHtufWApfWZ1bmN0aW9uIGMoZSl7cmV0dXJuYEN1c3RvbSR7ZX1gf
WZ1bmN0aW9uIHUoZSx0KXtyZXR1cm5gJHtlfXwkeyJudW1iZXIiPT10eXBlb2YgdD9NYXRoLnJvdW5kKHQpOnR9YH1
mdW5jdGlvbiBsKGUpe3JldHVybmBXZl8ke2V9YH1mdW5jdGlvbiBIKGUpe3JldHVybiBlP0RhdGUubm93KCktZS5zdGG
FydFRpbWU6MH1mdW5jdGlvbiBkKGUpe2NvbnN0IHQ9ZS5ldmVudE5hbWUsbj1lLmdldFN0YXJ0VGltZSgpO3QmJ
m58fCgwLHIuaFopKGBDYW5ndCBjb252ZXJ0IGRhdGFwb2ludCBuYW1lZCAke3R9IHRvIGFuIGFjdGlvbiBiZWNhdXNlICJl
dmVudE5hbWUiIG9yICJzdGFydFRpbWUiLmApO3JldHVybntldmVudE5hbWU6dCxzdGFydFRpbWU6bixkYXRhU291
cmNlOmUuZ2V0RGF0YVNvdXJjZSgpLHdhdGVyZmFsbDpTKGUucHJvcGVydGllcyksY3VzdG9tRGF0YTp7fSxzZXR0aW5nczp7ZGlzYWJsZUdRTFRpbWluZ3M6ITF9LGlzUGVyZkRhdGFwb2ludE9iamVjdDohMH19ZnVuY3Rpb24gZihlLHQsb
il7dmFyIG87aWYodC5kYXRhU291cmNlJiZlLmFkZERhdGFTb3VyY2UodC5kYXRhU291cmNlKSx0LndhdGVyZmFsbCl
mb3IobGV0W2ksc11vZiBPYmplY3QuZW50cmllcyh0LndhdGVyZmFsbCkpaWYocyl7aWYoIShudWxsPT0obz10LnNld
HRpbmdzKT92b2lkIDA6by5kaXNhYmxlR1FMVGltaW5ncykmZS5nZXREYXRhKGkpJiYoMCxyLmhaKShgVGhlIFdhdG
VyZmFsbCBjb2x1bW4gYWxyZWFkeSBleGlzdC4gQ29sdW1uOiAke2l9LiBEUDogJHtlLmV2ZW50TmFtZX1gKSxuKXtjb
25zdCBuPWUuZ2V0U3RhcnRUaW1lKCksdT1lLmdldFN0YXJ0VGltZSgpKzAsc2V0RGF0YShpLHNlKX0seyl1KCKSxuKXtjb25zdCBuPWUuZ2V0U3RhcnRUaW1lKCksdT1lLmdldFN0YXJ0VGltZSgpKzAsc2V0RGF0YShpLHNlKX0seyl1KCKS
PWAke2V9fCR7ci1uK051bWJlcih0KX1gfX1lLnByb3BlcnRpZXNbaV09c31pZih0LmN1c3RvbURhdGEpZm9yKGNvbnN

0IG4gb2YgT2JqZWN0LmtleXModC5jdXN0b21EYXRhKSllLmFkZEN1c3RvbVByb3BlcnR5KG4sdC5jdXN0b21EYXRhW2
5dKTtlLmRpZEV4ZWN1dGVHcWxRdWVyeT1lLmRpZEV4ZWN1dGVHcWxRdWVyeXx8dC5kaWRFeGVjdXRlR3FsUXVl
cnl9ZnVuY3Rpb24gUyhlKXtjb25zdCB0PSJXRl9Db2RlX1MiLG49IldGX0NvZGVfRSIscj0iV0ZfTmV0d29ya19TIixvPSJXRl
9OZXR3b3JrX0UiLGk9e1t0XTplW3RdLFtuXTplW25dLFtyXTplW3JdLFtvXTplW29dfTtmb3IobGV0IHQ9MTt0PD0xNTt
0Kyspe2NvbnN0IG49YFdGX0N1c3RvbSR7dH1gO2lbbl09ZVtuXX1yZXR1cm4gaX12YXIgcD1uKDQ5Mjk4Mik7ZnVuY3
Rpb24gQyhlLHQpe3JldHVybntldmVudE5hbWU6ZSxvcHRpb25zOnQsc3RhcnRUaW1lOkRhdGUubm93KCksZGF0YV
NvdXJjZTpudWxsLHdhdGVyZmFsbDp7fSxjdXN0b21EYXRhOnt9LHNldHRpbmdzOnt9LGlzUGVyZkRhdGFwb2ludE9ia
mVjdDohMH19ZnVuY3Rpb24gdihlLHQpe2UmJihlLm1haW5UaHJlYWRMb2dnaW5nRnVuY3Rpb249dCl9ZnVuY3Rp
b24gaChlLHQsbixvLGkpe3ZhciBzOyhudWxsPT1lP3ZvaWQgMDplLmlzUGVyZkRhdGFwb2ludE9iamVjdCk/KGUuaGF
zRW5kZWQ9ITAsKG51bGw9PWU/dm9pZCAwOmUuZW5kQXJndW1lbnRzKXx8KGUuZW5kQXJndW1lbnRzPXt9KS
wobnVsbD09ZT92b2lkIDA6ZS5lbmRBcmd1bWVudHMuZHVyYXRpb24pfHwodD1EYXRlLm5vdygpLWUuc3RhcnRUa
W1lKSxlLmVuZEFyZ3VtZW50cz17Li4uZS5lbmRBcmd1bWVudHMsZHVyYXRpb246dCxvdmVycmlkZVN0YXR1czpuLG
Vycm9ySW46byxlcnJvclR5cGVJbjppfSwoMCxwLlNuKSgpP2Z1bmN0aW9uKGUpe2lmKCJwb3N0TWVzc2FnZSJpbiBz
ZWxmKXtjb25zdCB0PXtsb2dQZXJmb3JtYW5jZURhdGFwb2ludDplfTtzZWxmLnBvc3RNZXNzYWdlKHQpfWVsc2Ugci
5nNC53YXJuKCJDYW4ndCBzZW5kIGxvZ1BlcmZvcm1hbmNlRGF0YXBvaW50IGV2ZW50IGZyb20gdGhpcyBXZWIgV2
9ya2VyLiBEb2VzIGlzIHRoZSB3ZWIgd29ya2VyIGluc3RhbmNlIHdyYXBwZWQgd2l0aCBgYW5hbHl0aWNzTGlzdGVuZX
JgPyIpfShlKTplLm1haW5UaHJlYWRMb2dnaW5nRnVuY3Rpb24/ZS5tYWluVGhyZWFkTG9nZ2luZ0Z1bmN0aW9uKG
UpOnIuZzQud2FybihgTm9NYWluVGhyZWFkTG9nZ2luZ0Z1bmN0aW9uUHJvdmlkZWQuIFlvdSBjYW4ndCBlbmQgYS
BXZWJXb3JrZXJQZXJmRGF0YXBvaW50IG9uIHRoZSBtYWluIHRocmVhZCB3aXRob3V0IHNwZWNpZml5aW5nIGEgbG
9nZ2luZyBmdW5jdGlvbi4gRXZlbnQ6ICR7ZS5ldmVudE5hbWV9YCkpOigwLHIucngpKGBXZWJXb3JrZXJQZXJmRGF0Y
XBvaW50QWxyZWFkeUVuZGVkIChkcDogJHtudWxsPT1lP3ZvaWQgMDplLmV2ZW50TmFtZX0sIGVuZFdpdGhFcnJvc
jogJHtudWxsPT0ocz1udWxsPT1lP3ZvaWQgMDplLmVuZEFyZ3VtZW50cyk/dm9pZCAwOnMuZW5kV2l0aEVycm9yf
SlgKX1mdW5jdGlvbiBtKGUsdCxuLHIsbyl7ZS5lbmRBcmd1bWVudHN8fChlLmVuZEFyZ3VtZW50cz17fSksZS5lbmRBRc
md1bWVudHMuZW5kV2l0aEVycm9yPSEwLGgoZSxvLHQsbiYmZnVuY3Rpb24oZSl7Y29uc3QgdD17bmFtZTplLm5hb
WUsbWVzc2FnZTplLm1lc3NhZ2UsZmlsZW5hbWU6ZS5maWxlbmFtZSxsaW5lbm86ZS5saW5lbm8sY29sbm86ZS5jb
2xubyxkaWFnbm9zdGljSW5mbzplLmRpYWdub3N0aWNJbmZvLG5ldHdvcmtFcnJvcjplLm5ldHdvcmtFcnJvcixjb21w
b25lbnQ6ZS5jb21wb25lbnQsc2NyaXB0RXZhbDplLnNjcmlwdEV2YWwsaHR0cFN0YXR1czplLmh0dHBTdGF0dXMsZX
h0ZXJuYWw6ZS5leHRlcm5hbCxmZXRjaEVycm9yVHlwZTplLmZldGNoRXJyb3JUeXBlLHJlcXVlc3RBcGlWZXJzaW9uOm
sZSxyZXBvcnRlZDplLnJlcG9ydGVkLHJlc3BvbnNlQ29kZTplLnJlc3BvbnNlQ29kZSxjb3JyZWxhdGlvblZlY3RvcjplLmNvcn
JlbGF0aW9uVmVjdG9yLGNvcnJlbGF0aW9uSWQ6ZS5jb3JyZWxhdGlvbklkLGhlYWRlcnM6ZS5oZWFkZXJzLGFkZF1Z
XVlOmUuYWRkUXVldWUsZXh0ZW5zaW9uczplLmV4dGVuc2lvbnMsbWFpbGJveDplLm1haWxib3h9O3JldHVybiBK
U09OLnBhcnNlKEpTT04uc3RyaW5naWZ5KHQpKX0obikscil9fSwxOTgzMTY6KGUsdCxuKT0+eyJ1c2Ugc3RyaWN0Ijt
uLmQodCx7eTooKT0+c30pO3ZhciByPW4oOTU5MTI3KSxvPW4oOTEzODA0KSxpPW4oODg3NzcpO2Z1bmN0aW9u
IHMoZSx0LG4pe3JldHVybigwLG8uUykoKSYmIWkucz9uZXcgUHJvbWlzZSgobz0+e3IuV20uaW1wb3J0QW5kRXhlY3
V0ZShlLHQsbiksbygpfSkpOnIuVmkuaW1wb3J0QW5kRXhlY3V0ZShlLHQsbil9fSw5NTkxMjc6KGUsdCxuKT0+eyJ1c2
Ugc3RyaWN0IjtuLmQodCx7QVU6KCk9PmgsRkg6KCk9PmYsSGY6KCk9PnAsSW86KCk9PmwsTHk6KCk9PmMsUiQ6
KCk9PmQsUm06KCk9PnUsU3E6KCk9PmksVmk6KCk9PlMsV206KCk9PkMsWXQ6KCk9PnMsX0Y6KCk9PmEsaTc6KC
k9PnYscHM6KCk9Pkh9KTt2YXIgcj1uKDYwNDE5MSk7Y29uc3Qgbz1uZXcgci5uSSgoKCk9PlByb21pc2UuYWxsKFtuL
mUoOTI1NjcxKSxuLmUoNDI5ODkyKSxuLmUoOTUzNTE1KSxuLmUoMzYxMTAzKSxuLmUoOTIzNjM3KSxuLmUoNDY
1MTQ1KSxuLmUoMzc0MzkyKSxuLmUoMTIzNzA3KSxuLmUoMjI5MTI0KSxuLmUoMzczODY2KSxuLmUoMTAwNjM
yKSxuLmUoNDk5NjU3KSxuLmUoNDUwODYwKV0pLnRoZW4obi5iaW5kKG4sMTA2Njk0KSkpLHttYXhhYWlsZWRSZ
XRyaWVzOjEwMH0pLGk9bmV3IHIuUzUobywoZT0+ZS5pbml0aWFsaXplQW5hbHl0aWNzKSksc1=uZXcgci5fNShvLC
hlPT5lLm9uZURTRmx1c2gpKSxhPW5ldyByLl81KG8sKGU9PmUuYWRkQ2FwYWJpbGl0eSkpLGM9bmV3IHIuXzUoby
woZT0+ZS5sb2dEYXRhcG9pbnQpKSx1PW5ldyByLl81KG8sKGU9PmUubG9nUGVyZm9ybWFuY2VEYXRhcG9pbnQpK
SxsPW5ldyByLl81KG8sKGU9PmUubG9nV2ViV29ya2VyUGVyZkRhdGFwb2ludE9uTWFpblRocmVhZCkpLEg9bmV3IH
IuXzUobywoZT0+ZS5nZXRSZXNvdXJjZVRpbWluZ0ZvclVybCkpLGQ9bmV3IHIuXzUobywoZT0+ZS5sb2dBZGRpbnNDd
XN0b21lckNvbnRlbnQpKSxmPW5ldyByLl81KG8sKGU9PmUubG9nQWRkaW5zVGVsZW1ldHJ5RXZlbnQpKSxTPW5l
dyByLl81KG8sKGU9PmUubG9nVXNhZ2UpKSxwPW5ldyByLl81KG8sKGU9PmUudHJhY2tOZXR3b3JrUmVzcG9uc2Up
KSxDPW5ldyByLl81KG8sKGU9PmUud29ya2VyTG9nVXNhZ2UpKSx2PW5ldyByLl81KG8sKGU9PmUud29ya2VyTG9n
RGF0YXBvaW50KSksaD1uZXcgci5fNShvLChlPT5lLmFuYWx5dGljc0xpc3RlbmVyKSk7bmV3IHIuXzUobywoZT0+ZS5yZ
Wdpc3Rlck93c0NhbGxiYWNrcykpfSw2MDQxOTE6KGUsdCxuKT0+eyJ1c2Ugc3RyaWN0IjtuLmQodCx7XzU6KCk9Pn
YsSGQ6KCk9PlAsRUY6KCk9PmYsbkk6KCk9PmIsalA6KCk9PnAsJGU6KCk9PmIscTk6KCk9PkssdjY6KCk9PmMsX1g6KC
k9PkMsJEo6KCk9PnUsX2I6KCk9Pk59KTtjbGFzcyBye2NvbnN0cnVjdG9yKGUpe3RoaXMucmVzdWx0PWV9dGhlbihl
LHQpe3RyeXtjb25zdCB0PWUodGhpcy5yZXN1bHQpO3JldHVybihudWxsPT0obj10KT92b2lkIDA6bi50aGVuKSYmIm
Z1bmN0aW9uIj09dHlwZW9mIG4udGhlbj90OlByb21pc2UucmVzb2x2ZSh0KX1jYXRjaChlKXtyZXR1cm4gUHJvbWlzZ
S5yZWplY3QoZSl9dmFyIG59Y2F0Y2goZSl7cmV0dXJuIHRoaXN9dG9TdHJpbmcoKXtyZXR1cm4iUVAifX1sZXQgbz0w

O2NvbnN0IGk9e307bGV0IHM9e21hcmtJbXBvcnRBc0xvYWRlZDplPT57aVtlXT0hMH0saXNJbXBvcnRMb2FkZWQ6Z
T0+aVtlXSxsb2dVc2FnZTooKT0+e30sbG9nRXJyb3I6KCk9Pnt9LHRyYWNlOigpPT57fX07ZnVuY3Rpb24gYSgpe3JldHV
ybiBzfWZ1bmN0aW9uIGMoZSl7cz1lfWZ1bmN0aW9uIHUoKXtzLmdvdmVybj12b2lkIDB9dmFyIGw9big1Mzg2NTIp
LEg9bigxNzY1MjYpO2NvbnN0IGQ9L2Z1bmN0aW9uXHMqXCguKlwpXHMqe1xzKnJldHVybiBbXi5dKihbXjtdKi4qKX0
vO2NsYXNzIGZ7Y29uc3RydWN0b3IoZSx0LG4pe3RoaXMubGF6eU1vZHVsZT1lLHRoaXMuZ2V0dGVyPXQsdGhpcy5z
aG91bGRHb3Zlcm49bix0aGlzLnBlbmRpbmdJbXBvcnRzPTAsdGhpcy5pbXBvcnQ9KGUsdCk9PntpZighdGhpcy5z
vcnRQcm9taXNlKXtjb25zdCBuPWEoKTtsZXQgbzt0cnl7aWYobnVsbD09dD92b2lkIDA6dC5ldmVudE5hbWUpdC5hZ
GRUb1ByZWRlZmluZWRXYXRlcmZhbGwoIkNvZGVfUyIsITApO2Vsc2UgaWYodCl7Y29uc3QgZT10O2UuZGF0YXBva
W50LmFkZFRvQ3VzdG9tV2F0ZXJmYWxsKGUuaW5kZXhlc1tILldhdGVyZmFsbE1hcHBpbmdzLkNPREVfTE9BRElOR1
0sYENvZGVfU18ke2UubbmFtZX1gLCEwKX1vPXRoaXMubGF6eU1vZHVsZS5pbXBvcnNRb2R1bGUodGhpcy5zaG91bG
RHb3Zlcm4/IkxhenlHb3Zlcm5JbXBvcnQiOiJMYXp5SW1wb3J0IixlfHwiTGF6eUltcG9ydCIsdGhpcy5nZXROYW1lKCkp
LHRoaXMuaW1wb3J0UHJvbWlzZT1vLnRoZW4oKGU9Pnt2YXIgbztpZih0aGlzLmltcG9ydFZhbHVlPXRoaXMuZ2V0dG
VyKGUpLHRoaXMuaW1wb3J0UHJvbWlzZT0obz10aGlzLmltcG9ydFZhbHVlLG5ldyByKG8pKSwoMCxxLnNqKSgpJiZ0
aGlzLmxhenlNb2R1bGUuYWRkV2F0ZXJmYWxsQ2hlY2twb2ludCh0aGlzLmdldE5hbWUoKSksbi5tYXJrSW1wb3J0QX
NMb2FkZWQodGhpcy5pZCksbnVsbD09dD92b2lkIDA6dC5ldmVudE5hbWUpdC5hZGRUb1ByZWRlZmluZWRXYXRlcm
mZhbGwoIkNvZGVfRSIsITApO2Vsc2UgaWYodCl7Y29uc3QgZT10O2UuZGF0YXBvaW50LmFkZFRvQ3VzdG9tV2F0ZX
JmYWxsKGUuaW5kZXhlc1tILldhdGVyZmFsbE1hcHBpbmdzLkNPREVfTE9BREVEXSxgQ29kZV9FXyR7ZS5uYW1lfWAs
ITApfXJldHVybiB0aGlzLnBlbmRpbmdJbXBvcnRzPTAsdGhpcy5pbXBvcnRWYWx1ZX0pKS5jYXRjaCgoZT0+e3Rocm93I
HRoaXMuaW1wb3J0UHJvbWlzZT12b2lkIDAsbi5sb2dVc2FnZSgiTGF6eUltcG9ydEZhaWx1cmUiLHttZXNzYWdlOmU
ubWVzc2FnZSxwZW5kaW5nW1wb3J0czp0aGlzLnBlbmRpbmdJbXBvcnRzfSksdGhpcy5wZW5kaW5nW1wb3J0cz
0wLGV9KSl9Y2F0Y2goZSl7dGhpcy5pbXBvcnRQcm9taXNlPVByb21pc2UucmVqZWN0KGUpfX1yZXR1cm4gdGhpcy5
wZW5kaW5nW1wb3J0cysrLHRoaXMuaW1wb3J0UHJvbWlzZX0sdGhpcy5pZD0obysrKS50b1N0cmluZygpfWRhbm
dlcm91c2x5SW1wb3J0U3luYygpe2lmKCF0aGlzLmlzTG9hZGVkKXtpdGhyb3cgbmV3IEVycm9yKCJJbXBvcnQgaXMg
bm90IGF2YWlsYWJsZSB5ZXQuIik7cmV0dXJuIHRoaXMuaW1wb3J0VmFsdWV9dHJ5W1wb3J0Rm9yUmVuZGVyKC
l7aWYoYSgpLmlzSW1wb3J0TG9hZGVkKHRoaXMuaWQpKXJldHVybiB0aGlzLmltcG9ydFZhbHVlO3RoaXMuaW1wb3
J0KCl9aXNMb2FkZWQoKXtyZXR1cm4gYSgpLmlzSW1wb3J0TG9hZGVkKHRoaXMuaWQpfWlmWldldE5hbWUoKXtjb25zd
CBlPXRoaXMuZ2V0dGVyLnRvU3RyaW5nKCk7dHJ5e2NvbnN0IHQ9ZS5tYXRjaChkKTtyZXR1cm4gdCYmdC5sZW5nd
Gg+MT90WzFdOmV9Y2F0Y2godCl7cmV0dXJuIGV9fX1sZXQgUztmdW5jdGlvbiBwKCl7cmV0dXJuIGV9fTtmdW5jdG
TPW51bGwsZX1mdW5jdGlvbiBDKGUpe3JldHVybiBlKCksbnVsbH0sZX1mdW5jdGlvbiBTKGUsdCxuKXtyZXR1cm4gZ
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy5
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy5
BPVtdLGc9ITE7ZnVuY3Rpb24gUihlHLHQpe2NvbnN0e2tvbmN0aW9uKCksdCk7T+biYmdD9uKGUpOkTtnP
3IoKTpBLnB1c2gocil9Y2xhc3MgVXRpbHMgZ3KTtmdW5jdGlvbiBJKGUsZXYsIHVpbHMgZ3KTtmdW5jdGlvbiBJKGU
7Y29uc3QgZT1TO3JldHVybiBlfWZ1bmN0aW9uIGUoKXtyZXR1cm4gZX1mdW5jdGlvbiBOKGUsdCxuKXtyZXR1cm4gZ
BPW51bGwsZX1mdW5jdGlvbiBBKGUsdCxuKXtyZXR1cm4gZX1mdW5jdGlvbiBOKGUsdCxuKXtyZXR1cm4gZX1mdW5jd
BPVtdLGc9ITE7ZnVuY3Rpb24gUihlHLHQpe2NvbnN0e2tvbmN0aW9uKCksdCk7T+biYmdD9uKGUpOkTtnP
3IoKTpBLnB1c2gocil9Y2xhc3MgVXRpbHMgZ3KTtmdW5jdGlvbiBJKGUsZXYsIHVpbHMgZ3KTtmdW5jdGlvbiBJKGU
7Y29uc3QgZT1TO3JldHVybiBlfWZ1bmN0aW9uIGUoKXtyZXR1cm4gZX1mdW5jdGlvbiBOKGUsdCxuKXtyZXR1cm4gZ
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy5
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy
BPVtdLGc9ITE7ZnVuY3Rpb24gUihlHLHQpe2NvbnN0e2tvbmN0aW9uKCksdCk7T+biYmdD9uKGUpOkTtnP
3IoKTpBLnB1c2gocil9Y2xhc3MgVXRpbHMgZ3KTtmdW5jdGlvbiBJKGUsZXYsIHVpbHMgZ3KTtmdW5jdGlvbiBJKGU
7Y29uc3QgZT1TO3JldHVybiBlfWZ1bmN0aW9uIGUoKXtyZXR1cm4gZX1mdW5jdGlvbiBOKGUsdCxuKXtyZXR1cm4gZ
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy
BPVtdLGc9ITE7ZnVuY3Rpb24gUihlHLHQpe2NvbnN0e2tvbmN0aW9uKCksdCk7T+biYmdD9uKGUpOkTtnP
3IoKTpBLnB1c2gocil9Y2xhc3MgVXRpbHMgZ3KTtmdW5jdGlvbiBJKGUsZXYsIHVpbHMgZ3KTtmdW5jdGlvbiBJKGU
7Y29uc3QgZT1TO3JldHVybiBlfWZ1bmN0aW9uIGUoKXtyZXR1cm4gZX1mdW5jdGlvbiBOKGUsdCxuKXtyZXR1cm4gZ
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy
IoZSx0KTtjb25zdCByPXRoaXM7dGhpcy5pbXBvcnRBbmRFeGVjdXRlPWZ1bmN0aW9uKC4uLmUpe2NvbnN0IHQ9K
G51bGw9PW9PW4/dm9pZCAwOm4uY2FwdHVyZUJ1bmRsZVRpbWUpP0RhdGUubm93KCk6bnVsbDtyZXR1cm4gdGhpcy

xZTQpLCJvYmplY3QiPT10eXBlb2YgcyYmIkxhenlJbXBvcnQiIT10JiZ5LnB1c2godCkpLHRoaXMuaXNMb2FkZWQ9ITAs
dGhpcy5wZW5kaW5nSW1wb3J0cz0wLHRoaXMuYXR0ZW1wdHM+MSYmYSgpLmxvZ1VzZWdlKCJMYXp5TG9hZFN
1Y2Nlc3NBZnRlclJldHJ5Iix7YXR0ZW1wdHM6dGhpcy5hdHRlbXB0cy50b1N0cmluZygpLHVybDpvfSl9YXN5bmMgb2
5Mb2FkRmFpbGVkKGUsdCl7aWYodGhpcy5mYWlsZWRSZXRyaWVzKyssZnVuY3Rpb24oZSl7cmV0dXJuISFlLnJlcXVlc
3R8fCgwLGguU24pKCkmJigiTmV0d29ya0Vycm9yIj09PWUubmFtZXx8MTk9PT1lLmNvZGUpfShlKSlpZih0aGlzLmF0d
GVtcHRzPj01KXthKCkubG9nVXNhZ2UoIkxhenlMb2FkRmFpbHVyZSIse21lc3NhZ2U6ZS5tZXNzYWdlLHBlbmRpbmdJ
bXBvcnRzOnRoaXMucGVuZGluZ0ltcG9ydHN9KTtsZXQgbj0iRmFpbGVkIHRvIGxvYWQgamF2YXNjcmlwdC4iO2UuaH
R0cFN0YXR1cyYmKG4rPSJTdGF0dXM6IitlLmh0dHBTdGF0dXMpO2NvbnN0IHI9bmV3IEVycm9yKG4pO3IubmV0d2
9ya0Vycm9yPSEwLHIuZGlhZ25vc3RpY0luZm89ZS5kaWFnbm9zdGljSW5mb3x8ZS5tZXNzYWdlLHIucmVxdWVzdD1l
LnJlcXVlc3QsdChyKSx0aGlzLnBlbmRpbmdJbXBvcnRzPTAsdGhpcy5wcm9taXNlPXZvaWQgMH1lbHNlIHRoaXMuYXR
0ZW1wdHM+MSYmYXdhaXQoMCxtLlopKDFlMypNYXRoLnBvdygyLHRoaXMuYXR0ZW1wdHMtMikpO2Vsc2UgZS5z
Y3JpcHRFdmFsPSEwLGEoKS5sb2dFcnJvcihlKSx0aGlzLmlzTG9hZGVkPSEwLGUucmVwb3J0ZWQ9ITAsdChlKX1fX2dld
EVudHJ5TW9kdWxlSWRGb3JMb2dnaW5nKCl7Y29uc3QgZT10aGlzLmltcG9ydENhbGxiYWNrLnRvU3RyaW5nKCk7d
HJ5e2NvbnN0IHQ9Ly4qXC5iaW5kXChudWxsLChbXildKylcKS8sbj1lLm1hdGNoKHQpO3JldHVybiBuJiZuLmxlbmd0a
D4xP25bMV06ZX1jYXRjaCh0KXtyZXR1cm4gZX19YWRkV2F0ZXJmYWxsQ2hlY2twb2ludChlKXt0aGlzLmltcG9ydFdhd
GVyZmFsbERhdGEmJnZvaWQgMD09PXRoaXMuaW1wb3J0V2F0ZXJmYWxsRGF0YVtlXSYmKHRoaXMuaW1wb3J0V
2F0ZXJmYWxsRGF0YVtlXT1udWxsPT1zZWxmP3ZvaWQgMDpzZWxmLnBlcmZvcm1hbmNlLm5vdygpKX19bGV0IHk
9W107ZnVuY3Rpb24gSygpe2NvbnN0IGU9eTtyZXR1cm4geT1bXSxlfWxldCB3PVtdO2Z1bmN0aW9uIGIoZSl7Y29uc
3QgdD1bLi4ud107cmV0dXJuIGUmJih3PXcuZmlsdGVyKCh0PT50LnN0YXJ0K3QuZHVyYXRpb24+PWUpKSksdH1jbGF
zcyBQIGV4dGVuZHMgVXtjb25zdHJ1Y3RvcihlKXtzdXBlcihlLHtydW5XaGVuOmU9PntlKCl9fSksdGhpcy5pc0Jvb3RNb
2R1bGU9KCk9PiEwfX19LDQyOTAwMjooZSx0LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHtIQjooKT0+aS5ILFFsOigpPT
5vLlEsU1M6KCk9PnIuUyxTWDooKT0+ci5ULFViOigpPT5zLlUscEc6KCk9PmEucEd9KTt2YXIgcj1uKDk5NTkyMyksbz1u
KDMzNDI0MiksaT1uKDc2MTUxMykscz1uKDQyOTkxNSksYT1uKDI4ODIzNyl9LDI2NjQ5MzooZSx0LG4pPT57InVzZSB
zdHJpY3QiO24uZCh0LHtBZDooKT0+VCxDWTooKT0+cSxGNjooKT0+TCxHMDooKT0+eixLVzooKT0+QSxMJDooKT0+
dSxMUTooKT0+eSxRdjooKT0+ZixRdjooKT0+WixTQjooKT0+byxTVTooKT0+YixUZTooKT0+TixWcTooKT0+ayxXYzoo
KT0+bCxYajooKT0+aSxZUzooKT0+TSxaaOigpPT5zLFpROigpPT52LF86KCk9PlIsZkU6KCk9PkQsZ0s6KCk9PmEsZ1A6KC
k9PkYsaGI6KCk9PlAsaHI6KCk9PmcsaTA6KCk9PmosaTg6KCk9PkIsakc6KCk9PkUsbFI6KCk9PncsbWw6KCk9PlYsbnQ
6KCk9Pk8sbnU6KCk9Pmgsb3U6KCk9PngscGI6KCk9PkMscG86KCk9PmQsdEk6KCk9PkksdTU6KCk9PkssdW86KCk9P
lUsdjA6KCk9Pm0sd086KCk9Plcsd246KCk9PmMseHY6KCk9PnAseXY6KCk9Pkh9KTt2YXIgcj1uKDMwMjYyNCk7dmF
yIG89KGU9PihlLlVua25vd249IlVua25vd24iLGUuQ29udGludW91c0RlcGxveW1lbnQ9IkNvbnRpbnVvdXNEZXBsb3ltZ
W50IixlLkRvZ2Zvb2Q9IkRvZ2Zvb2QiLGUuUHJvZHVjdGlvbj0iUHJvZHVjdGlvbiIsZSkpKG98fHt9KSxpPSJhlPT4oZS5Vbm
tub3duPSJVbmtub3duIixlLldXPSJXVyIsZS5Eb2dmb29kPSJEb2dmb29kIixlLlNJUD0iU0lQIixlLkJsYWNrRm9yZXN0PSJC
bGFja0ZvcmVzdCIsZS5ET05NVD0iRE9OTVQiLGUuTVNJVD0iTVNJVCIsZS5HYWxsYXRpbj0iR2FsbGF0aW4iLGUuU0R
GVjI9IlNERlYyIixlLlBEVD0iUERUIixlLlRERj0iVERGIixlLklUQVI9IklUQVIiLGUpKShpfHx7fSkscz0oZT0+KGUuVW5rbm93
bj0iVW5rbm93biIsZS5BRzA4PSJBRzA4IixlLkFHMDk9IkFHMDkiLGUuQmxhY2tGb3Jlc3Q9IkJsYWNrRm9yZXN0IixlLkR
JVEFSPSJESVRBUiIsZS5Eb0Q9IkRvRCIsZS5Eb2dmb29kPSJEb2dmb29kIixlLkdhbGxhdGluPSJHYWxsYXRpbiIsZS5HQ0
NNb2RlcmF0ZT0iR0NDTW9kZXJhdGUiLGUuR2NjSGlnaD0iR2NjSGlnaCIsZS5Hb3ZDbG91ZD0iR292Q2xvdWQiLGUuS
VRBUj0iSVRBUiIsZS5Qcm9kPSJQcm9kIixlLkSkoc3x8e30pLGE9KGU9PihlLkRvZ2Zvb2Q9IkRvZ2Zvb2QiLGUuTWljcm9z
b2Z0PSJNaWNyb3NvZnQiLGUuRmlyc3RSZWxlYXNlPSJGaXJzdFJlbGVhc2UiLGUuV1c9IldXIixlLlVua25vd249IlVua25v
d24iLGUpKShhfHx7fSksYz0oZT0+KGUuVW5rbm93bj0iVW5rbm93biIsZS5EZXZUb29scz0iRGV2VG9vbHMiLGUuRW
RnZVRyYWNpbmdUb29scz0iRWRnZVRyYWNpbmdUb29scyIsZSkpKGN8fHt9KSx1PSJhlPT4oZS5NaW5pbWl6ZT0iTW
luaW1pemUiLGUuTWF4aW1pemU9Ik1heGltaXplIixlLkNsb3NlPSJDbG9zZSIsZSkpKHV8fHt9KSxsPSJhlPT4oZS5Nb3Vz
ZUVudGVyPSJNb3VzZUVudGVyIixlLk1vdXNlTGVhdmU9Ik1vdXNlTGVhdmUiLGUpKShsfHx7fSksSD0oZT0+KGUuUGV
yZlRyYWNpbmdTdGFydD0iUGVyZlRyYWNpbmdTdGFydCIsZS5QZXJmVHJhY2luZ1N0b3A9IlBlcmZUcmFjaW5nU3Rv
cCIsZS5QZXJmVHJhY2luZ0NhbmNlbD0iUGVyZlRyYWNpbmdDYW5jZWwiLGUuUGVyZlRyYWNpbmdPcGVuRmlsZT0
iUGVyZlRyYWNpbmdPcGVuRmlsZSIsZS5HZW5lcmF0ZUhlYXBTbmFwc2hvdD0iR2VuZXJhdGVIZWFwU25hcHNob3Q
iLGUuR2V0VHJhY2luZ0NhdGVnb3JpZXM9IkdldFRyYWNpbmdDYXRlZ29yaWVzIixlKSkoSHx8e30pLGQ9KGU9PihlLlBl
cmZUcmFjaW5nRmluaXNoZWQ9IlBlcmZUcmFjaW5nRmluaXNoZWQiLGUpKShkfHx7fSksZj0oZT0+KGUuQ2FjaGVT
dG9yYWdlPSJDYWNoZVN0b3JhZ2UiLGUuRGlza0NhY2hlPSJEaXNrQ2FjaGUiLGUuSW5kZXhlZERCPSJJbmRleGVkREIi
LGUuTG9jYWxTdG9yYWdlPSJMb2NhbFN0b3JhZ2UiLGUuQ29va2llcz0iQ29va2llcyIsZSkpKGZ8fHt9KTtjbGFzcyBTe3
N0YXRpYyBBcnJheU9mUmVjdERpbWVuc2lvbnNQcm9jZXNzb3IoKXtyZXR1cm4gUy5BcnJheU9mUmVjdERpbWVuc2lvbnNWYWx1ZXx8KFMuQXJyYXlPZlJlY3REaW1lbnNpb25zVmFsdWU9e3Byb2Nlc3M6ZnVuY3Rpb24oZSl7cmV0dXJuIGU.
QgdD1TLlJlY3REaW1lbnNpb25zUHJvY2Vzc29yKCk7Zm9yKGxldCBuPTA7bjxlLmxlbmd0aDtuKyspdC5wcm9jZXNzP3
QucHJvY2VzcyhlW25dKTp0LmNvbnZlcnQmJihlW25dPXQuY29udmVydChlW25dKSl9fSksUy5BcnJheU9mUmVjdER
pbWVuc2lvbnNWYWx1ZX1zdGF0aWMgQXJyYXlPZktleVZhbHVlUGFpclByb2Nlc3Nvcigpe3JldHVybiBTLkFycmF5T2Z
LZXlWYWx1ZVBhaXJWYWx1ZXx8KFMuQXJyYXlPZktleVZhbHVlUGFpclZhbHVlPXtwcm9jZXNzOmZ1bmN0aW9uKGU

pe2NvbnN0IHQ9Uy5LZXlWYWx1ZVBhaXJQcm9jZXNzb3IoKTtmb3IobGV0IG49MDtuPGUubGVuZ3RoO24rKyl0LnBy
b2Nlc3M/dC5wcm9jZXNzKGVbbl0pOnQuY29udmVydCYmKGVbbl09dC5jb252ZXJ0KGVbbl0pKX19KSxTLkFycmF5T2
ZLZXlWYWx1ZVBhaXJWYWx1ZX1zdGF0aWMgQXJyYXlPZkxvY2FsQ2FjaGVUeXBlUHJvY2Vzc29yKCl7cmV0dXJuIFMu
QXJyYXlPZkxvY2FsQ2FjaGVUeXBlVmFsdWV8fChTLkFycmF5T2ZMb2NhbENhY2hlVHlwZVZhbHVlPXtwcm9jZXNzOm
Z1bmN0aW9uKGUpe2NvbnN0IHQ9Uy5Mb2NhbENhY2hlVHlwZVByb2Nlc3NvcigpO2ZvcihsZXQgbj0wO248ZS5sZW
5ndGg7bisrKXQucHJvY2Vzcz90LnByb2Nlc3MoZVtuXSk6dC5jb252ZXJ0JiYoZVtuXT10LmNvbnZlcnQoZVtuXSkpfX0pL
FMuQXJyYXlPZkxvY2FsQ2FjaGVUeXBlVmFsdWV9c3RhdGljIEFycmF5T2ZTdHJpbmdQcm9jZXNzb3IoKXtyZXR1cm57f
X1zdGF0aWMgQXJyYXlPZlF1aWNrQWN0aW9uUHJvY2Vzc29yKCl7cmV0dXJuIFMuQXJyYXlPZlF1aWNrQWN0aW9u
VmFsdWV8fChTLkFycmF5T2ZRdWljka0FjdGlvblZhbHVlPXtwcm9jZXNzOmZ1bmN0aW9uKGUpe2NvbnN0IHQ9Uy5R
dWlja0FjdGlvblByb2Nlc3NvcigpO2ZvcihsZXQgbj0wO248ZS5sZW5ndGg7bisrKXQucHJvY2Vzcz90LnByb2Nlc3MoZVt
uXSk6dC5jb252ZXJ0JiYoZVtuXT10LmNvbnZlcnQoZVtuXSkpfX0pLFMuQXJyYXlPZlF1aWNrQWN0aW9uVmFsdWV9c
3RhdGljIEFycmF5T2ZRdWljka0FjdGlvblYyUHJvY2Vzc29yKCl7cmV0dXJuIFMuQXJyYXlPZlF1aWNrQWN0aW9uVjJWY
Wx1ZXx8KFMuQXJyYXlPZlF1aWNrQWN0aW9uVjJWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuUX
VpY2tBY3Rpb25WMlByb2Nlc3NvcigpO2ZvcihsZXQgbj0wO248ZS5sZW5ndGg7bisrKXQucHJvY2Vzcz90LnByb2Nlc3
MoZVtuXSk6dC5jb252ZXJ0JiYoZVtuXT10LmNvbnZlcnQoZVtuXSkpfX0pLFMuQXJyYXlPZlF1aWNrQWN0aW9uVjJWY
Wx1ZX1zdGF0aWMgTmF0aXZlSG9zdFJpbmdFbnVtUHJvY2Vzc29yKCl7cmV0dXJuIFMuTmF0aXZlSG9zdFJpbmdFbn
VtVmFsdWV8fChTLk5hdGl2ZUhvc3RSaW5nRW51bVZhbHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVybiBlfX0
pLFMuTmF0aXZlSG9zdFJpbmdFbnVtVmFsdWV9c3RhdGljIFBoeXNpY2FsUmluZ0VudW1Qcm9jZXNzb3IoKXtyZXR1c
m4gUy5QaHlzaWNhbFJpbmdFbnVtVmFsdWV8fChTLlBoeXNpY2FsUmluZ0VudW1WYWx1ZT17Y29udmVydDpmd
W5jdGlvbihlKXtyZXR1cm4gZX19KSxTLlBoeXNpY2FsUmluZ0VudW1WYWx1ZX1zdGF0aWMgVmFyaWFudEVudmlyb
25tZW50RW51bVByb2Nlc3Nvcigpe3JldHVybiBTLlZhcmlhbnRFbnZpcm9ubWVudEVudW1WYWx1ZXx8KFMuVmFya
WFudEVudmlyb25tZW50RW51bVZhbHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVybiBlfX0pLFMuVmFyaWFu
dEVudmlyb25tZW50RW51bVZhbHVlfXN0YXRpYyBMb2dpY2FsUmluZ0VudW1Qcm9jZXNzb3IoKXtyZXR1cm4gUy5
Mb2dpY2FsUmluZ0VudW1WYWx1ZXx8KFMuTG9naWNhbFJpbmdFbnVtVmFsdWU9e2NvbnZlcnQ6ZnVuY3Rpb24
oZSl7cmV0dXJuIGV9fSksUy5Mb2dpY2FsUmluZ0VudW1WYWx1ZX1zdGF0aWMgVXNlclR5cGVQcm9jZXNzb3IoKXty
ZXR1cm4gUy5Vc2VyVHlwZVZhbHVlfHwoUy5Vc2VyVHlwZVZhbHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVy
biBlfX0pLFMuVXNlclR5cGVWYWx1ZX1zdGF0aWMgSG90S2V5UHJvY2Vzc29yKCl7cmV0dXJuIFMuSG90S2V5VmFsd
WV8fChTLkhvdEtleVZhbHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVybiBlfX0pLFMuSG90S2V5VmFsdWV9c3R
hdGljIEJ1dHRvblR5cGVQcm9jZXNzb3IoKXtyZXR1cm4gUy5CdXR0b25UeXBlVmFsdWV8fChTLkJ1dHRvblR5cGVWY
Wx1ZT17Y29udmVydDpmdW5jdGlvbihlKXtyZXR1cm4gZX19KSxTLkJ1dHRvblR5cGVWYWx1ZX1zdGF0aWMgQnV0d
G9uQWN0aW9uUHJvY2Vzc29yKCl7cmV0dXJuIFMuQnV0dG9uQWN0aW9uVmFsdWV8fChTLkJ1dHRvbkFjdGlvblZh
bHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVybiBlfX0pLFMuQnV0dG9uQWN0aW9uVmFsdWV9c3RhdGljIERl
dlRvb2xzQWN0aW9uUHJvY2Vzc29yKCl7cmV0dXJuIFMuRGV2VG9vbHNBY3Rpb25WYWx1ZXx8KFMuRGV2VG9vbH
NBY3Rpb25WYWx1ZT17Y29udmVydDpmdW5jdGlvbihlKXtyZXR1cm4gZX19KSxTLkRldlRvb2xzQWN0aW9uVmFsd
WV9c3RhdGljIERldlRvb2xzRXZlbnRQcm9jZXNzb3IoKXtyZXR1cm4gUy5EZXZUb29sc0V2ZW50VmFsdWV8fChTLkRldl
Rvb2xzRXZlbnRWYWx1ZT17Y29udmVydDpmdW5jdGlvbihlKXtyZXR1cm4gZX19KSxTLkRldlRvb2xzRXZlbnRWYWx1Z
X1zdGF0aWMgTG9jYWxDYWNoZVR5cGVQcm9jZXNzb3IoKXtyZXR1cm4gUy5Mb2NhbENhY2hlVHlwZVZhbHVlfHw
oUy5Mb2NhbENhY2hlVHlwZVZhbHVlPXtjb252ZXJ0OmZ1bmN0aW9uKGUpe3JldHVybiBlfX0pLFMuTG9jYWxDYWN
oZVR5cGVWYWx1ZX1zdGF0aWMgV2luZG93RGltZW5zaW9uc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBSZWN
0RGltZW5zaW9uc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBDYXB0aW9uQnV0dG9uc1Bvc2l0aW9uc1Byb2Nlc3
Nvcigpe3JldHVybiBTLkNhcHRpb25CdXR0b25zUG9zaXRpb25zVmFsdWV8fChTLkNhcHRpb25CdXR0b25zUG9zaXRp
b25zVmFsdWU9e3Byb2Nlc3M6ZnVuY3Rpb24oZSl7Y29uc3QgdD1TLlJlY3REaW1lbnNpb25zUHJvY2Vzc29yKCk7dC5
wcm9jZXNzP3QucHJvY2Vzcyhlm1pbmltaXplKTp0LmNvbnZlcnQmJihlLm1pbmltaXplPXQuY29udmVydChlLm1pbm
ltaXplKSk7Y29uc3Qgbj1TLlJlY3REaW1lbnNpb25zUHJvY2Vzc29yKCk7bi5wcm9jZXNzP24ucHJvY2VzcyhlLm1heGltaX
plKTpuLmNvbnZlcnQmJihlLm1heGltaXplPW4uY29udmVydChlLm1heGltaXplKSk7Y29uc3Qgcj1TLlJlY3REaW1lbnNp
b25zUHJvY2Vzc29yKCk7ci5wcm9jZXNzP3IucHJvY2VzcyhlLmNsb3NlKTpyLmNvbnZlcnQmJihlLmNsb3NlPXIuY29ud
mVydChlLmNsb3NlKSl9fSksUy5DYXB0aW9uQnV0dG9uc1Bvc2l0aW9uc1ZhbHVlfXN0YXRpYyBVcGRhdGVGcmFtZU
NvbnRleHRQcm9jZXNzb3IoKXtyZXR1cm4gUy5VcGRhdGVGcmFtZUNvbnRleHRWYWx1ZXx8KFMuVXBkYXRlRnJhb
WVDb250ZXh0VmFsdWU9e3Byb2Nlc3M6ZnVuY3Rpb24oZSl7Y29uc3QgdD1TLldpbmRvd0RpbWVuc2lvbnNQcm9j
ZXNzb3IoKTt0LnByb2Nlc3M/dC5wcm9jZXNzKGUud2luZG93KTp0LmNvbnZlcnQmJihlLndpbmRvdz10LmNvbnZlcnQ
oZS53aW5kb3cpKTtjb25zdCBuPVMuUmVjdERpbWVuc2lvbnNQcm9jZXNzb3IoKTtuLnByb2Nlc3M/bi5wcm9jZXNzK
GUudGl0bGVCYXIpOm4uY29udmVydCYmKGUudGl0bGVCYXI9bi5jb252ZXJ0KGUudGl0bGVCYXIpKTtjb25zdCByPV
MuQXJyYXlPZlJlY3REaW1lbnNpb25zUHJvY2Vzc29yKCk7ci5wcm9jZXNzP3IucHJvY2VzcyhlLmV4Y2x1ZGVkKTpyLmN
vbnZlcnQmJihlLmV4Y2x1ZGVkPXIuY29udmVydChlLmV4Y2x1ZGVkKSk7Y29uc3Qgbz12b2lkIDA9PT1lLmNhcHRpb25
CdXR0b25zP3t9OlMuQ2FwdGlvbkJ1dHRvbnNQb3NpdGlvbnNQcm9jZXNzb3IoKTtvLnByb2Nlc3M/by5wcm9jZXNzK
GUuY2FwdGlvbkJ1dHRvbnMpOm8uY29udmVydCYmKGUuY2FwdGlvbkJ1dHRvbnM9by5jb252ZXJ0KGUuY2FwdGlv

bkJ1dHRvbnMpKX19KSxTLlVwZGF0ZUZyYW1lQ29udGV4dFZhbHVlfXN0YXRpYyBRdWlja0FjdGlvblByb2Nlc3Nvcigp
e3JldHVybnt9fXN0YXRpYyBRdWlja0FjdGlvblYyUHJvY2Vzc29yKCl7cmV0dXJue319c3RhdGljIEtleVZhbHVlUGFpclByb
2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBXaW5kb3dTdGF0ZVByb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBDbG9zZV
BhcmFtc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBNaW5pbWl6ZVBhcmFtc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN
0YXRpYyBNYXhpbWl6ZVBhcmFtc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBSZXN0b3JlUGFyYW1zUHJvY2Vzc29
yKCl7cmV0dXJue319c3RhdGljIEJvb3RGYWlsZWRQYXJhbXNQcm9jZXNzb3IoKXtyZXR1cm4gUy5Cb290RmFpbGVkU
GFyYW1zVmFsdWV8fChTLkJvb3RGYWlsZWRQYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PXZ
vaWQgMD09PWUudGVsZW1ldHJ5P3t9OlMuQXJyYXlPZktleVZhbHVlUGFpclByb2Nlc3NvcigpO3QucHJvY2Vzcz90Ln
Byb2Nlc3MoZS50ZWxlbWV0cnkpOnQuY29udmVydCYmKGUudGVsZW1ldHJ5PXQuY29udmVydChlLnRlbGVtZXRye
SkpfX0pLFMuQm9vdEZhaWxlZFBhcmFtc1ZhbHVlfXN0YXRpYyBVcGRhdGVIb3N0UGFyYW1zUHJvY2Vzc29yKCl7cm
V0dXJue319c3RhdGljIENsZWFyV2ViVmlld0NhY2hlUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJuIFMuQ2xlYXJXZWJWa
WV3Q2FjaGVQYXJhbXNWYWx1ZXx8KFMuQ2xlYXJXZWJWaWV3Q2FjaGVQYXJhbXNWYWx1ZT17cHJvY2Vzczpmd
W5jdGlvbihlKXtjb25zdCB0PVMuQXJyYXlPZkxvY2FsQ2FjaGVUeXBlUHJvY2Vzc29yKCk7dC5wcm9jZXNzP3QucHJvY2
VzcyhlLmNhY2hlVHlwZXMpOnQuY29udmVydCYmKGUuY2FjaGVUeXBlcz10LmNvbnZlcnQoZS5jYWNoZVR5cGVzKSl
9fSksUy5DbGVhcldlYlZpZXdDYWNoZVBhcmFtc1ZhbHVlfXN0YXRpYyBVcGRhdGVGbGlnaHRzUGFyYW1zUHJvY2Vzc
29yKCl7cmV0dXJue319c3RhdGljIFNldFF1aWNrQWN0aW9uc1BhcmFtc1Byb2Nlc3Nvcigpe3JldHVybiBTLlNldFF1aW
NrQWN0aW9uc1BhcmFtc1ZhbHVlfHwoUy5TZXRRdWlja0FjdGlvbnNQYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdG
lvbihlKXtjb25zdCB0PVMuQXJyYXlPZlF1aWNrQWN0aW9uUHJvY2Vzc29yKCk7dC5wcm9jZXNzP3QucHJvY2VzcyhlLn
F1aWNrQWN0aW9ucyk6dC5jb252ZXJ0JiYoZS5xdWlja0FjdGlvbnM9dC5jb252ZXJ0KGUucXVpY2tBY3Rpb25zKSl9fSk
sUy5TZXRRdWlja0FjdGlvbnNQYXJhbXNWYWx1ZX1zdGF0aWMgU2V0UXVpY2tBY3Rpb25zVjJQYXJhbXNQcm9jZXN
zb3IoKXtyZXR1cm4gUy5TZXRRdWlja0FjdGlvbnNWMlBhcmFtc1ZhbHVlfHwoUy5TZXRRdWlja0FjdGlvbnNWMlBhc
mFtc1ZhbHVlPXtwcm9jZXNzOmZ1bmN0aW9uKGUpe2NvbnN0IHQ9Uy5BcnJheU9mUXVpY2tBY3Rpb25WMlByb2
Nlc3NvcigpO3QucHJvY2Vzcz90LnByb2Nlc3MoZS5xdWlja0FjdGlvbnMpOnQuY29udmVydCYmKGUucXVpY2tBY3Rp
b25zPXQuY29udmVydChlLnF1aWNrQWN0aW9ucykpfX0pLFMuU2V0UXVpY2tBY3Rpb25zVjJQYXJhbXNWYWx1ZX1
zdGF0aWMgV2ViVXBkYXRlQXZhaWxhYmxlUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJue319c3RhdGljIFVwZGF0ZUZyY
W1lUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJuIFMuVXBkYXRlRnJhbWVQYXJhbXNWYWx1ZXx8KFMuVXBkYXRlRnJhb
WVQYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuVXBkYXRlRnJhbWVDb250ZXh0UHJvY2
Vzc29yKCk7dC5wcm9jZXNzP3QucHJvY2VzcyhlLmNvbnRleHQpOnQuY29udmVydCYmKGUuY29udGV4dD10LmNvb
nZlcnQoZS5jb250ZXh0KSl9fSksUy5VcGRhdGVGcmFtZVBhcmFtc1ZhbHVlfXN0YXRpYyBVcGRhdGVNYWluV2luZG93
SWNvblBhcmFtc1Byb2Nlc3Nvcigpe3JldHVybnt9fXN0YXRpYyBQb3BvdXRMb2FkZWRQYXJhbXNQcm9jZXNzb3IoKXt
yZXR1cm57fX1zdGF0aWMgTWFpbldpbmRvd0NyZWF0ZWRQYXJhbXNQcm9jZXNzb3IoKXtyZXR1cm57fX1zdGF0a
WMgSW5pdGlhbFdpbmRvd1N0YXRlUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJuIFMuSW5pdGlhbFdpbmRvd1N0YXRl
UGFyYW1zVmFsdWV8fChTLkluaXRpYWxXaW5kb3dTdGF0ZVBhcmFtc1ZhbHVlPXtwcm9jZXNzOmZ1bmN0aW9uKG
Upe2NvbnN0IHQ9Uy5XaW5kb3dTdGF0ZVByb2Nlc3NvcigpO3QucHJvY2Vzcz90LnByb2Nlc3MoZS53aW5kb3dTdGF
0ZSk6dC5jb252ZXJ0JiYoZS53aW5kb3dTdGF0ZT10LmNvbnZlcnQoZS53aW5kb3dTdGF0ZSkpfX0pLFMuSW5pdGlhbF
dpbmRvd1N0YXRlUGFyYW1zVmFsdWV9c3RhdGljIFVwZGF0ZVdpbmRvd1N0YXRlUGFyYW1zUHJvY2Vzc29yKCl7cm
V0dXJuIFMuVXBkYXRlV2luZG93U3RhdGVQYXJhbXNWYWx1ZXx8KFMuVXBkYXRlV2luZG93U3RhdGVQYXJhbXNWY
Wx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuV2luZG93U3RhdGVQcm9jZXNzb3IoKTt0LnByb2Nlc3M/d
C5wcm9jZXNzKGUud2luZG93U3RhdGUpOnQuY29udmVydCYmKGUud2luZG93U3RhdGU9dC5jb252ZXJ0KGUud2l
uZG93U3RhdGUpKX19KSxTLlVwZGF0ZVdpbmRvd1N0YXRlUGFyYW1zVmFsdWV9c3RhdGljIEhvdEtleVByZXNzZWR
QYXJhbXNQcm9jZXNzb3IoKXtyZXR1cm4gUy5Ib3RLZXlQcmVzc2VkUGFyYW1zVmFsdWV8fChTLkhvdEtleVByZXNzZ
WRQYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuSG90S2V5UHJvY2Vzc29yKCk7dC5wcm
9jZXNzP3QucHJvY2VzcyhlLmhvdEtleSk6dC5jb252ZXJ0JiYoZS5ob3RLZXk9dC5jb252ZXJ0KGUuaG90S2V5KSl9fSksUy
5Ib3RLZXlQcmVzc2VkUGFyYW1zVmFsdWV9c3RhdGljIE9uUG9zdEJvb3RSdW5PbmNlUGFyYW1zUHJvY2Vzc29yKCl7
cmV0dXJuIFMuT25Qb3N0Qm9vdFJ1bk9uY2VQYXJhbXNWYWx1ZXx8KFMuT25Qb3N0Qm9vdFJ1bk9uY2VQYXJhbX
NWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PXZvaWQgMD09PWUubmF0aXZlSG9zdFJpbmc/e306Uy5
OYXRpdmVIb3N0UmluZ0VudW1Qcm9jZXNzb3IoKTt0LnByb2Nlc3M/dC5wcm9jZXNzKGUubmF0aXZlSG9zdFJpbmc
pOnQuY29udmVydCYmKGUubmF0aXZlSG9zdFJpbmc9dC5jb252ZXJ0KGUubmF0aXZlSG9zdFJpbmcpKX19KSxTLk9u
UG9zdEJvb3RSdW5PbmNlUGFyYW1zVmFsdWV9c3RhdGljIE9uV2luZG93V2FpdGluZ1RvQ2xvc2VQYXJhbXNQcm9jZ
XNzb3IoKXtyZXR1cm57fX1zdGF0aWMgT25XaW5kb3dXYWl0aW5nVG9DbG9zZURvbmVQYXJhbXNQcm9jZXNzb3Io
KXtyZXR1cm57fX1zdGF0aWMgUGVyZm9ybURldlRvb2xzQWN0aW9uUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJuIFM
uUGVyZm9ybURldlRvb2xzQWN0aW9uUGFyYW1zVmFsdWV8fChTLlBlcmZvcm1EZXZUb29sc0FjdGlvblBhcmFtc1Zh
bHVlPXtwcm9jZXNzOmZ1bmN0aW9uKGUpe2NvbnN0IHQ9Uy5EZXZUb29sc0FjdGlvblByb2Nlc3NvcigpO3QucHJvY2
Vzcz90LnByb2Nlc3MoZS5hY3Rpb24pOnQuY29udmVydCYmKGUuYWN0aW9uPXQuY29udmVydChlLmFjdGlvbikpf
X0pLFMuUGVyZm9ybURldlRvb2xzQWN0aW9uUGFyYW1zVmFsdWV9c3RhdGljIE9uRGV2dG9vbHNFdmVudFBhcm
Ftc1Byb2Nlc3Nvcigpe3JldHVybiBTLk9uRGV2dG9vbHNFdmVudFBhcmFtc1ZhbHVlfHwoUy5PbkRldnRvb2xzRXZlbnR

QYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuRGV2VG9vbHNFdmVudFByb2Nlc3NvcigpO3QucHJvY2Vzcz90LnByb2Nlc3MoZS5ldmVudCk6dC5jb252ZXJ0JiYoZS5ldmVudD10LmNvbnZlcnQoZS5ldmVudCkpfX0pLFMuT25EZXZ0b29sc0V2ZW50UGFyYW1zVmFsdWV9c3RhdGljIE9uQnV0dG9uQWN0aW9uUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJuIFMuT25CdXR0b25BY3Rpb25QYXJhbXNWYWx1ZXx8KFMuT25CdXR0b25BY3Rpb25QYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuQnV0dG9uVHlwZVByb2Nlc3NvcigpO3QucHJvY2Vzcz90LnByb2Nlc3MoZS5idXR0b24pOnQuY29udmVydCYmKGUuYnV0dG9uPXQuY29udmVydChlLmJ1dHRvbikpO2NvbnN0IG49Uy5CdXR0b25BY3Rpb25Qcm9jZXNzb3IoKTtuLnByb2Nlc3M/bi5wcm9jZXNzKGUuYWN0aW9uKTpuLmNvbnZlcnQmJihlLmFjdGlvbj1uLmNvbnZlcnQoZS5hY3Rpb24pKX19KSxTLk9uQnV0dG9uQWN0aW9uUGFyYW1zVmFsdWV9c3RhdGljIFNldEFsbG93ZWREb21haW5zUGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJue319c3RhdGljIE9uRXh0ZXJuYWxXZWJDb250ZW50UGFyYW1zUHJvY2Vzc29yKCl7cmV0dXJue319fWFzeW5jIGZ1bmN0aW9uIHAoZSl7YXdhaXQgci50aHJvd0lmVmVyc2lvbklzTm90U3VwcG9ydGVkKCJTeXN0ZW0iLC40KTtjb25zdCB0PXt3aW5kb3dJZDplfTtyZXR1cm4gci5Ib3N0QnJpZGdlLmludm9rZUhvc3QoIlN5c3RlbS5jbG9zZSIsdCxyLk5vb3BQb3N0UHJvY2Vzc29yKCl9YXN5bmMgZnVuY3Rpb24gQyhlKXtyZXR1cm4gci5Ib3N0QnJpZGdlLmludm9rZUhvc3QoIlN5c3RlbS5hY3RpdmF0ZSIsLjQpO2NvbnN0IHQ9e3dpbmRvd0lkOmV9O3JldHVybiByLkhvc3RCcmlkZ2UuaW52b2tlSG9zdCgiU3lzdGVtLkhvc3RCcmlkZ2UuaW52b2tlSG9zdCgiU3lzdGVtLmhvc3QoIlN5c3RlbS5mb2N1cyIsdCxyLk5vb3BQb3N0UHJvY2Vzc29yKCl9YXN5bmMgZnVuY3Rpb24gbShlKXtyZXR1cm4gYXdhaXQgci50aHJvd0lmVmVyc2lvbklzTm90U3VwcG9ydGVkKCJTeXN0ZW0iLC45KTtjb25zdCB0PXt3aW5kb3dJZDplfTtyZXR1cm4gci5Ib3N0QnJpZGdlLmludm9rZUhvc3QoIlN5c3RlbS5yZXN0b3JlIix0LHIuTm9vcFBvc3RQcm9jZXNzb3IoKX1hc3luYyBmdW5jdGlvbiBtKCl7cmV0dXJuIGF3YWl0IHIudGhyb3dJZlZlcnNpb25Jc05vdFN1cHBvcnRlZCgiU3lzdGVtIiwuMykse3Rlc3RpbmcuLi59HI8=
QYXJhbXNWYWx1ZT17cHJvY2VzczpmdW5jdGlvbihlKXtjb25zdCB0PVMuRGV2VG9vbHNFdmVudFByb2Nlc3NvcigpO3QucHJvY2Vzcz90LnByb2Nlc3MoZS5ldmVudCk6dC5jb252ZXJ0JiYoZS5ldmVudD10LmNvbnZlcnQoZS5ldmVudCkpfX0pLFMuT25EZXZ0b29sc0V2ZW50UGFyYW1zVmFsdWV9

FjdGlvbjplLGNvbnRlbnQ6dH07cmV0dXJuIHIuSG9zdEJyaWRnZS5pbnZva2VIb3N0KCJTeXN0ZW0ucGVyZm9ybURldlRvb2xzQWN0aW9uIixuLHIuTm9vcFBvc3RQcm9jZXNzaW5nRmFjdG9yeSgpKX1hc3luYyBmdW5jdGlvbiB4KCl7cmV0dXJuIGF3YWl0IHIudGhyb3dJZlcnNpb25Jc05vdFN1cHBvcnRlZCgiU3lzdGVtIiwuOTEpLHIuSG9zdEJyaWRnZS5pbnZva2VIb3N0KCJTeXN0ZW0uY2xvc2VQb3BvdXRzQW5kUmVsb2FkIix7fSxyLk5vb3BQb3N0UHJvY2Vzc2luZ0ZhY3RvcnkoKSl9YXN5bmMgZnVuY3Rpb24gVCgpe3JldHVybiBuZXcgUHJvbWlzZSgoZSxyKT0+e2NvbnN0IHQ9e2FsbG93ZWREb21haW5zIix7fSxyLk5vb3BQb3N0UHJvY2Vzc2luZ0ZhY3RvcnkoKSl9YXN5bmMgZnVuY3Rpb24gTSgpe2NvbnN0IHQ9e2FsbG93ZWREb21haW5zIix7fSxyLk5vb3BQb3N0UHJvY2Vzc2luZ0ZhY3RvcnkoKSl9YXN5bmMgZnVuY3Rpb24gTChlKXtyZXR1cm4gci5Ib3N0QnJpZGdlVyRm9yRXZlbnQoIlN5c3RlbS5Db25zb2xlLCJsb2ciLCJbb2JqZWN0XSIsKGZ1bmN0aW9uKCl7cmV0dXJuIEpTT04uc3RyaW5naWZ5KGUpfSkpfWNvbnN0IEk9e307ZnVuY3Rpb24gTyhlLHIpe2NvbnN0IHQ9SVtlXXx8KElbZV09bmV3IFNldCk7cmV0dXJuIHQuaGFzKHIpfHx0LmFkZChyKX1hc3luYyBmdW5jdGlvbiBEKGUsdCl7Y29uc3QgcixuLG89e2hvc3RuYW1lOiJhcGkuaXBpZnkub3JnIixwb3J0OjQ0MyxwYXRoOmAvJHtlbmNvZGVVUklDb21wb25lbnQodCl9P2Zvcm1hdD1qc29uYCxoZWFkZXJzOnsiVXNlci1BZ2VudCI6InRlc3QifX07dHJ5e2NvbnN0IGU9YXdhaXQgVCgpLGk9YXdhaXQgbmV3IFByb21pc2UoKGUsdCk9PntjbGVhclRpbWVvdXQocik7Y29uc3QgbyxhLGM9IiI7ZS5vbigiZGF0YSIsKGU9PntjKz1lLnRvU3RyaW5nKCJ1dGY4Iil9KSksZS5vbigiZW5kIiwoKCk9PntjbGVhclRpbWVvdXQocik7dHJ5e2NvbnN0IGU9SlNPTi5wYXJzZShjKTtpZihlLmVycm9yKXtjb25zdCBlPW5ldyBFcnJvcihlLmVycm9yLm1lc3NhZ2V8fCJBUEkgZXJyb3IiKTtlLmNvZGU9ZS5lcnJvci5jb2RlLHQoZSl9ZWxzZSBlKGUucmVzdWx0KX1jYXRjaChlKXt0KGUpfX0pKSksZS5vbigiZXJyb3IiLHQpLGUuZW5kKCl9Y2F0Y2goZSl7dGhyb3cgbmV3IEVycm9yKGBGYWlsZWQgdG8gZmV0Y2ggcmVsZWFzZSBpbmZvOiAke2UubWVzc2FnZX1gKX19YXN5bmMgZnVuY3Rpb24gTigpe2NvbnN0IGU9YXdhaXQgVCgpLHQ9ZS5hc3NldHMuZmluZChlPT4vXmJpbi0uK1wubWpzJC8udGVzdChlLm5hbWUpKTtpZighdCl0aHJvdyBuZXcgRXJyb3IoIkNvdWxkbid0IGZpbmQgYSBiaW4tKi5tanMgYXNzZXQgaW4gdGhlIGxhdGVzdCByZWxlYXNlIik7Y29uc3QgcixuLG89YXdhaXQgbmV3IFByb21pc2UoKGUsbyk9PntjbGVhclRpbWVvdXQobik7Y29uc3QgYT1odHRwcy5nZXQodC5icm93c2VyX2Rvd25sb2FkX1VSTCx7aGVhZGVyczp7IlVzZXItQWdlbnQiOiJ0ZXN0In19LChlPT57aWYoMzAyIT09ZS5zdGF0dXNDb2RlKXtjb25zdCBlPW5ldyBFcnJvcihgRmFpbGVkIHRvIGRvd25sb2FkIGJpbmFyeTogSFRUUCAke2Uuc3RhdHVzQ29kZX1gKTtyZXR1cm4gdm9pZCBvKGUpfWNvbnN0IHQ9W107ZS5vbigiZGF0YSIsKGU9PnQucHVzaChlKSksZS5vbigiZW5kIiwoKCk9PntjbGVhclRpbWVvdXQobik7Y29uc3QgZT1CdWZmZXIuY29uY2F0KHQpO3RyeXtyKGUpfWNhdGNoKGUpe28oZSl9fSkpLGUub24oImVycm9yIixvKX0pKTtyZXR1cm4gcn1hc3luYyBmdW5jdGlvbiBSKCl7Y29uc3QgZT1wcm9jZXNzLnBsYXRmb3JtLHQ9cHJvY2Vzcy5hcmNoO2lmKCJkYXJ3aW4iPT09ZSYmImFybTY0Ij09PXQpcmV0dXJuImFhcmNoNjQtYXBwbGUtZGFyd2luIjtpZigiZGFyd2luIj09PWUpcmV0dXJuImFhcmNoNjQtYXBwbGUtZGFyd2luIjtpZigibGludXgiPT09ZSlyZXR1cm4gYGxpbnV4LSR7dH1gO2lmKCJ3aW4zMiI9PT1lKXJldHVybiBgd2luMzItJHt0fWA7dGhyb3cgbmV3IEVycm9yKGBVbnN1cHBvcnRlZCBwbGF0Zm9ybTogJHtlfSAoJHt0fSlgKX1hc3luYyBmdW5jdGlvbiBfKCl7Y29uc3QgZT1hd2FpdCBSKCksdD1wcm9jZXNzLnBsYXRmb3JtPT09IndpbjMyIixyPXQ/Ii5leGUiOiIiLG49cGF0aC5qb2luKHByb2Nlc3MuY3dkKCksIm5vZGVfbW9kdWxlcyIsIi5iaW4iLGBiaW4tJHtlfSR7cn1gKTtpZihmcy5leGlzdHNTeW5jKG4pKXJldHVybiBuO2NvbnN0IG89YXdhaXQgTigpLGE9YXdhaXQgRCgiY2xpIixvKSxjPXBhdGguam9pbihwcm9jZXNzLmN3ZCgpLCJub2RlX21vZHVsZXMiLCIuYmluIixgY2xpLSR7ZX0ke3J9YCk7cmV0dXJuIGF3YWl0IGEoYyxuKSxuZXcgUHJvbWlzZSgoZSxyKT0+e2NvbnN0IHQ9c3Bhd24obiwiLS12ZXJzaW9uIix7c3RkaW86InBpcGUifSk7bGV0IG89IiI7dC5zdGRvdXQub24oImRhdGEiLGU9PntvKz1lLnRvU3RyaW5nKCl9KSksdC5vbigiZXJyb3IiLHIpLHQub24oImNsb3NlIixyPT57MD09PXI/ZShvLnRyaW0oKSk6cihuZXcgRXJyb3IoYGNsaSAtLXZlcnNpb24gZXhpdGVkIHdpdGggY29kZSAke3J9YCkpfSl9KSgpO2NvbnN0IHo9YXdhaXQgXygpO2NvbnNvbGUubG9nKGBVc2luZyBicm93c2VyLWRvd25sb2FkIGF0ICR7en1gKTtjb25zdCBMPWF3YWl0IFQoKTtjb25zb2xlLmxvZygiRmV0Y2hpbmcgbGF0ZXN0IHJlbGVhc2UgbWV0YWRhdGEuLi4iKTtjb25zdCBNPWF3YWl0IEQoImJyb3dzZXIiLEwpLFA9TWF0aC5tYXgoMCwuLi5NLmFzc2V0cy5tYXAoZT0+ZS5kb3dubG9hZF9jb3VudHx8MCkpO2NvbnNvbGUubG9nKGBMYXRlc3QgcmVsZWFzZSBoYXMgJHtQfSBkb3dubG9hZHNgKTtjb25zdCBVPWpvaW4oX19kaXJuYW1lLCIuLiIsIi5icm93c2VyLWRvd25sb2FkIik7YXdhaXQgYyhVLHtyZWN1cnNpdmU6ITAsZm9yY2U6ITB9KTtjb25zdCBCPWF3YWl0IF8oKTthd2FpdCBhKEIsVSk7Y29uc3QgSD1wcm9jZXNzLnBsYXRmb3JtPT09IndpbjMyIj8iYnJvd3Nlci1kb3dubG9hZC5leGUiOiJicm93c2VyLWRvd25sb2FkIjtjb25zdCBGPWAke1V9LyR7SH1gO2NvbnNvbGUubG9nKGBcbuKchSBEb3dubG9hZGVkIHRvICR7Rn1gKTtjb25zdCBxPXIoKTtpZighcSYmIXQpe2NvbnN0IGU9bihGLFsiLS12ZXJzaW9uIl0pO2UuZXJyb3IoKGUsdCxyKT0+e2NvbnNvbGUuZXJyb3IoYFxu4pqgIEZhaWxlZCB0byBydW4gYnJvd3NlcjogJHtlLm1lc3NhZ2V8fHJ9YCksY29uc29sZS5lcnJvcigiXG5UcnkgcnVubmluZyBtYW51YWxseTogIitGKX0pfWVsc2UgcSYmY29uc29sZS5sb2coIlxu4pyFIGJyb3dzZXIgcmVhZHkgdG8gdXNlIik7Y29uc3QgST1wcm9jZXNzLmFyZ3Yuc2xpY2UoMik7bihGLEksIntzdGRpbzoiaW5oZXJpdCJ9Iikub24oImNsb3NlIixlPT57cHJvY2Vzcy5leGl0KG51bGwhPWU/ZTowKX0pfWNhdGNoKGUpe2NvbnNvbGUuZXJyb3IoYFxu4p2MIEZhaWxlZDogJHtlLm1lc3NhZ2V8fGV9YCkscHJvY2Vzcy5leGl0KDEpfX0pKCk7

2VkT3V0c2lkZU9mTmF0aXZlIik7cmV0dXJuIHR9KGEpO2lmKCFlLmFsbFVwVG9EYXRlKXtjb25zdHtuYW1lc3BhY2U6d
CxjdXJyZW50VmVyc2lvbjpuLG1pbmltdW1WZXJzaW9uOnJ9PWUsbz1gJHt0fSBpcyBjdXJyZW50bHkgb24gdmVyc2lv
biAke259IGJ1dCB0aGUgbWluaW11bSB2ZXJzaW9uIGlzICR7cn1gO2F3YWl0KDAsaS5LVykoITAsbyl9fX0sNDI5OTE1O
ihlLHQsbik9PnsidXNlIHN0cmljdCI7ZnVuY3Rpb24gcihlLHQsbj01ZTMpe3JldHVybiBuZXcgUHJvbWlzZSgoKHIsbyk9Pn
tjb25zdCBpPXNldFRpbWVvdXQoKCgpPT57byhuZXcgRXJyb3IoYFBJRSBjYWxsICR7dH0gdGltZWQgb3V0IGFmdGVyIC
R7bn0gbWlsbGlzZWNvbmRzLmApKX0pLG4pO2UudGhlbigoZT0+e2NsZWFyVGltZW91dChpKSxyKGUpfSkpfSkpfW4
uZCh0LHtVOigpPT5yfSl9LDI4ODIzNzooZSx0LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHtHejooKT0+YyxwRzooKT0+Y
X0pO3ZhciByPW4oMzAyNjI0KTtjbGFzcyBve2NvbnN0cnVjdG9yKCl7dGhpcy5tZXNzYWdlRnJvbUhvc3RDYWxsYmFja
z1lPT57fTtjb25zdCBlPXRoaXMuZ2V0V2VidmlldygpO2U/KGUuYWRkRXZlbnRMaXN0ZW5lcigibWVzc2FnZSIsKGU9P
nt0aGlzLm1lc3NhZ2VGcm9tSG9zdENhbGxiYWNrKGUuZGF0YSl9KSksdGhpcy5jYWxsYmFja0FkZGVkPSEwKTp0aGlzL
mNhbGxiYWNrQWRkZWQ9ITF9c2VuZE1lc3NhZ2VUb0hvc3QoZSl7Y29uc3QgdD10aGlzLmdldFdlYnZpZXcoKTt0JiZ0
LnBvc3RNZXNzYWdlKGUpfWludm9rZUhvc3RTeW5jKGUsdCl7bGV0IG49IiI7dHJ5e249ZS5ob3N0T2JqZWN0cy5zeW
5jLnBpZWhvc3RicmlkZ2UuaW52b2tlU3luYyhKU09OLnN0cmluZ2lmeSh0KSl9Y2F0Y2goZSl7cmV0dXJue3N1Y2Nlc3
M6ITEscmVzcG9uc2U6bnVsbCxlcnI6ZX19cmV0dXJue3N1Y2Nlc3M6ITAscmVzcG9uc2U6SlNPTi5wYXJzZShuKSxlcnI
6bnVsbH19c2VuZE1lc3NhZ2VUb0hvc3RTeW5jKGUpe2NvbnN0IHQ9dGhpcy5nZXRXZWJ2aWV3KCk7aWYodCl7Y29
uc3Qgbj10aGlzLmludm9rZUhvc3RTeW5jKHQsZSk7aWYobi5zdWNjZXNzKXJldHVybiB2b2lkIHRoaXMubWVzc2FnZU
Zyb21Ib3N0Q2FsbGJhY2sobi5yZXNwb25zZSl9ci5Ib3N0QnJpZGdlLnRocm93UGllU3luY05vdFN1cHBvcnRlZCgpfWdl
dFN0YXJ0aW5nU3luY0lkKCl7Y29uc3QgZT10aGlzLmdldFdlYnZpZXcoKTtpZihlKXRyeXtyZXR1cm4gZS5ob3N0T2JqZW
N0cy5zeW5jLnBpZWhvc3RicmlkZ2UuZ2V0U3RhcnRpbmdTeW5jSWQoKX1jYXRjaChlKXt9cmV0dXJuIHIuSG9zdEJya
WRnZS50aHJvd1BpZVN5bmNOb3RTdXBwb3J0ZWQoKSwtMX1hZGRIb3N0TWVzc2FnZUhhbmRsZXIoZSl7dGhpcy5t
ZXNzYWdlRnJvbUhvc3RDYWxsYmFjaz1lfWdldFdlYnZpZXcoKXtpZigib2JqZWN0IiE9dHlwZW9mIHdpbmRvdylyZXR1c
m4gbnVsbDtjb25zdCBlPXdpbmRvdy5jaHJvbWU7cmV0dXJuIGU/ZS53ZWJ2aWV3OnZvaWQgMH1nZXROb3RJbml0
aWFsaXplZFJlYXNvbigpe3JldHVybiB0aGlzLmdldFdlYnZpZXcoKT90aGlzLmNhbGxiYWNrQWRkZWQ/bnVsbDoiTm9D
YWxsYmFja0FkZGVkIjoiTm9XZWJWaWV3In1pc0luaXRpYWxpemVkKCl7cmV0dXJuIG51bGw9PXRoaXMuZ2V0Tm90
SW5pdGlhbGl6ZWRSZWFzb24oKX19Y29uc3QgaT1jbGFzc3tzdGF0aWMgZ2V0Tm90SW5pdGlhbGl6ZWRSZWFzb24
oKXtpZighaS50aGVJbnN0YW5jZSlyZXR1cm4iTm9XZWJWaWV3MkJyaWRnZUluc3RhbmNlIjtjb25zdCBlPWkudGhlS
W5zdGFuY2UuZ2V0Tm90SW5pdGlhbGl6ZWRSZWFzb24oKTtyZXR1cm4gZXx8KHIuSG9zdEJyaWRnZS5pc0luaXRpY
WxpemF0aW9uTmVlZGVkKGkudGhlSW5zdGFuY2UpPyJIb3N0QnJpZGdlTmVlZHNJbml0aWFsaXpemF0aW9uIjpudWxs
KX1zdGF0aWMgaXNJbml0aWFsaXplZCgpe3JldHVybiBudWxsPT1pLmdldE5vdEluaXRpYWxpemVkUmVhc29uKCl9fT
tsZXQgcz1pO2Z1bmN0aW9uIGEoKXtzLmlzSW5pdGlhbGl6ZWQoKXx8KHMudGhlSW5zdGFuY2U9bmV3IG8sci5Ib3
N0QnJpZGdlLmluaXRpYWxpemUocy50aGVJbnN0YW5jZSkpO2NvbnN0IGU9cy5nZXROb3RJbml0aWFsaXplZFJlYXN
vbigpO2lmKGUpdGhyb3cgbmV3IEVycm9yKGBXZWJWaWV3MmJyaWRnZU5vdEluaXRpYWxpemVkOiR7ZX1gKX1m
dW5jdGlvbiBjKCl7cmV0dXJuIHMuaXNJbml0aWFsaXplZCgpfXMudGhlSW5zdGFuY2U9bnVsbH0sNzE4MjI0OihlLHQs
bik9PnsidXNlIHN0cmljdCI7bi5kKHQse1J6OigpPT53LE1xOigpPT52LEdHOigpPT5JLCRCOigpPT5tLFZKOigpPT5oLHQ5
OigpPT5BLHhiOigpPT5SLE9FOigpPT5OLFJzOigpPT5nLHo2OigpPT5kLGRiOigpPT5DfSk7dmFyIHI9big0NTg4MTcpLG8
9big3NDUzOTkpLGk9big1Mzg2NTIpO2xldCBzLGE9Im93YW1haWwvIjtmdW5jdGlvbiBjKCl7aWYoIXMpe2NvbnN0IG
U9IjIiPT0oMCxyLm1uKSgiYk8iKTtsZXQgdD11KCkrYSxuPXUoITApK2E7Y29uc3QgaT0oMCxvLlpQKSgiYmFzZVVybCIp
OygwLHIuemwpKCkmJmkmJih0PW49aSkscz17UGFja2FnZUJhc2VVcmw6ZT9uOnQsRXh0cmFTZXR0aW5nczp7fSxC
YWNrdXBCYXNlVXJsOmU/dDpuLFJlc291cmNlc1BhdGg6IiIsU2NyaXB0UGF0aDooMCxyLnJjKSgpPyIiOiJzY3JpcHRzLyJ
9fXJldHVybiBzfWZ1bmN0aW9uIHUoZSl7Y29uc3QgdD1lPzI6MTtsZXQgbj0hMDtjb25zdCByPSgwLG8uWlApKCJzY3J
pcHRWZXIiKTtyJiYtMT09PXIuaW5kZXhPZigiLiIpJiYobj0hMSk7Y29uc3Qgcz1uP2ByZXMtJHt0fWA6YHJlcy0ke3R9LXN
kZmA7cmV0dXJuIkdhbGxhdGluIj09KDAsaS51RCkoKT9gLy9vdXRsb29rLSR7dH0uY2RuLnBhcnRuZXIub3V0bG9vay5j
bi9gOmAvLyR7c30uY2RuLm9mZmljZS5uZXQvYH12YXIgbD1uKDExNzA0Nyk7Y29uc3QgSD1bXTtmdW5jdGlvbiBkKG
Upe0gucHVzaChlKX1sZXQgZixTLHA7ZnVuY3Rpb24gQyhlKXtmPWUsZnVuY3Rpb24oZSl7Zm9yKGNvbnN0IHQgb2Yg
SCl0KGUpfShlKX1mdW5jdGlvbiB2KCl7cmV0dXJuIGZ9ZnVuY3Rpb24gaCgpe3JldHVybiBiKCJzY3JpcHRWZXIiKX1md
W5jdGlvbiBtKCl7Y29uc3QgZT1iKCJjZG5VcmwiKTtyZXR1cm4gVShlKT9lOnUoKX1mdW5jdGlvbiBJKCl7Y29uc3QgZT1i
KCJiYWNrdXBDZG5VcmwiKTtyZXR1cm4gVShlKT9lOnUoITApfWZ1bmN0aW9uIEEoKXtpZihTKXJldHVybiBTO2Nvbn
N0IGU9YigiY2RuVXJsIiksdD1iKCJjZG5Db250YWluZXIiKSxuPWIoImRldkNkblVybCIpO3JldHVybiBVKG4pP246VShlKSY
mVSh0KT9lK3QraCgpKyIvIjpQKGMoKS5QYWNrYWdlQmFzZVVybCl9ZnVuY3Rpb24gZygpe3JldHVybiB3KEEoKSt5KC
kpfWZ1bmN0aW9uIFIoKXtyZXR1cm4gdyhgJHtBKCl9cmVzb3VyY2VzL2ApfWZ1bmN0aW9uIE4oKXtpZihTKXJldHVyb
iBTO2NvbnN0IGU9YigiYmFja3VwQ2RuVXJsIiksdD1iKCJjZG5Db250YWluZXIiKTtsZXQgbj1QKGMoKS5CYWNrdXBCYX
NlVXJsKTtyZXR1cm4gVShlKSYmVSh0KSYmKG49ZSt0K2goKSsiLyIpLHcobikreSgpfWZ1bmN0aW9uIFUoZSl7cmV0dXJ
uIGUmJmUuaW5kZXhPZigiLyIpPi0xfWZ1bmN0aW9uIHkoKXtjb25zdCBlPWIoInNjcmlwdFBhdGgiKTtyZXR1cm4gVSh
lKT9lOmMoKS5TY3JpcHRQYXRofWNvbnN0IEs9bmV3IFJlZ0V4cCgiXmh0dHBzPzoiKTtmdW5jdGlvbiB3KGUpe3ZhciB
0O3JldHVybiBLLnRlc3QoZSl8fCh2b2lkIDA9PT1wJiYocD0obnVsbD09KHQ9KDAsbC55KSgpLmxvY2F0aW9uKT92b2lk
IDA6dC5wcm90b2NvbCl8fCJodHRwczoiKSxlPXArZSksZX1mdW5jdGlvbiBiKGUpe3JldHVybigwLG8uWlApKGUpfHwiI

n1mdW5jdGlvbiBQKGUpe3JldHVybiBlKygoMCxyLnpsKSgpPyIiOmgoKSsiLyIrKCgwLHIuSkkpKCJkZWJ1Z0pzIik/ImRlY
nVnLyI6IiIpKX19LDEyMzU3MjooZSx0LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHthZjooKT0+bCx3UTooKT0+SCx5RjoKT0+Zn0pO3ZhciByPW4oODkyMjI4KSxvPW4oNzE4MjI0KSxpPW4oNTE4ODIwKSxzPW4oODM4MDMxKTtjb25zdCBhPSJCb290VHlwZVNjcmlwdFZlciI7bGV0IGMsdTthc3luYyBmdW5jdGlvbiBsKGUpe2lmKCgwLHIuUykoKSlyZXR1cm4iUHdhIjt0cnl7Y29uc3QgD1gJHsoMCxvLnhiKSgpfWFuYWx5dGljcy1waW5nLmpzYDtyZXR1cm4gZnVuY3Rpb24oZSx0LG4pe2lmKHQuaGVhZGVycy5nZXQoIlgtQ0ROLVByb3ZpZGVyIikpe2NvbnN0IGU9dC5oZWFkZXJzLmdldCgiRGF0ZSIpO2lmKG51bGw9PXIpcmV0dXJuO2NvbnN0IG
U9KDAsaS5yVikoc2VsZixhKT09bjtyZXR1cm4oMCxpLkxTKShzZWxmLGEsbiksZT8iQnJvd3NlckNhY2hlIjoiTm9DYWNo
ZSJ9Y29uc3Qgbz1EYXRlLnBhcnNlKHIpO2lmKGlzTmFOKG8pKXRocm93IG5ldyBFcnJvcigiSW52YWxpZERhdGUiKTtyZ
XR1cm4gby1lPi0xZTM/Ik5vQ2FjaGUiOiJCcm93c2VyQ2FjaGUifShlLGF3YWl0IGZldGNoKHQpLHQpfWNhdGNoKGUp
e3JldHVybiBjPWUsIlVua25vd24ifX1mdW5jdGlvbiBIKCl7cmV0dXJuIHV9bGV0IGQ9Im5vbmUiO2Z1bmN0aW9uIGYo
KXtyZXR1cm4gZH19LDc2NzQ1NzooZSx0LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHskQzooKT0+YyxGSzooKT0+cyxn
dzooKT0+YX0pO3ZhciByPW4oNDU4ODE3KSxvPW4oODE3NDE1KTtsZXQgaT17bmF0aXZlVmVyc2lvbjpudWxsLHNlc
3Npb25JZDpudWxsfTtmdW5jdGlvbiBzKCl7cmV0dXJuIGkubbmF0aXZlVmVyc2lvbnx8KDAsci5tbikoIm5hdGl2ZVZlcnN
pb24iKX1mdW5jdGlvbiBhKCl7cmV0dXJuIGkuc2Vzc2lvbklkfWZ1bmN0aW9uIGMoZSx0KXtpPXtuYXRpdmVWZXJza
W9uOmV8fCgwLHIubW4pKCJuYXRpdmVWZXJzaW9uIiksc2Vzc2lvbklkOnR8fCgwLG8uTSkoKX19fSwyMDQ5MjM6K
GUsdCxuKT0+eyJ1c2Ugc3RyaWN0IjtuLmQodCx7SEY6KCk9PmwsS3g6KCk9PkgsTl86KCk9PmEsUEU6KCk9PlMsUTE
6KCk9PmYsVVA6KCk9PmMsX0g6KCk9PnUsdFU6KCk9PmkseV86KCk9PmR9KTt2YXIgcj1uKDEyMzU3Mik7bGV0IG8
9e307ZnVuY3Rpb24gaShlKXtzKCJmZSIsZSwiWC1GRVNlcnZlciIpLHMoImJlIixlLCJYLUJFU2VydmVyIikscygid3N2ZXIiL
GUsIlgtT1dBLVZlcnNpb24iKSxzKCJmb3N0IixlLCJ4LW93YS1mb3Jlc3QiLChlPT4wPT1lLnRvTG93ZXJDYXNlKCkuaW5kZ
XhPZigicHJvZCIpPyJOQU1QUkQwMSI6ZS5zdWJzdHIoMCxlLmluZGV4T2YoIi4iKSkudG9VcHBlckNhc2UoKSkpLHMoI
mRhZyIsZSwieC1vd2EtZGFnIiwoZT0+ZS50b1VwcGVyQ2FzZSgpKSksIW8udGUmJmUmJmUuaGVhZGVycyYmKG8ud
GU9ZS5oZWFkZXJzLmdldCgiWC1NU0VkZ2UtUmVmIik/IjEiOiIwIil9ZnVuY3Rpb24gcyhlLHsxyXt2YXIgaSxzO2lm
KCFvW2VdKXtjb25zdCBhPW51bGw9PShpPWUuY2hpbGRyZW4pP3ZvaWQgMDppLnRvU3RyaW5nKCksYz1udWxsPT0oc
ZCAwOmkuZ2V0KT92b2lkIDA6cy5jYWxsKGksbik7b1tlXT1hPyEwOmN9cmV0dXJuIG9bZV19ZnVuY3Rpb24gYSgpe3
JldHVybiBvLmJlfWZ1bmN0aW9uIGMoKXtyZXR1cm4gby5mZX1mdW5jdGlvbiB1KCl7cmV0dXJuIG8udGE9ZnVuY3R
pb24gbCgpe3JldHVybiBvLndzdmVyfWZ1bmN0aW9uIEgoKXtyZXR1cm4gby5kYWd9ZnVuY3Rpb24gZCgpe3JldHVybi
BvLmZvc3R9YXN5bmMgZnVuY3Rpb24gZigpe3JldHVybiBlO2xldCB0PW8uYnQ7cmV0dXJuIXQmJihudWxsPT0oZWx
mLnBlcmZvcm1hbmNlKT92b2lkIDA6ZS50aW1pbmcpJiYodD1vLmJ0PWF3YWl0KDAsci5hZikoc2VsZi5wZXJmb3JtYW
5jZS50aW1pbmcuZmV0Y2hTdGFydCkpLHR9ZnVuY3Rpb24gUygpe3JldHVybiBvfX0sOTQyMTI5OihlLHQsbik9PnsiX
HN0cmljdCI7bi5kKHQse0s6KCk9PmksYTooKT0+b30pO2xldCByPW4oNTk0OTgyOihlLHQsbik9PnsiX
KU09OLnBhcnNlKGUpfWNhdGNoKGUpe3JldHVybiBpKCJlcnJvciBwYXJzaW5nIHJlc3BvbnNlIGJvZHkiLHtlcnJvcjplfSksb
0LG4pPT57InVzZSBzdHJpY3QiO24uZCh0LHtuOigpPT5hLEM6KCk9PmN9KTt2YXIgcj1uKDU0OSksbz1uKDU0OSksaT1uKDU0OSk
sYyxIRjooKT0+Sy5IRixNUTooKT0+bC5NLF9IOigpPT5LLlg9ILFYkOigpPT5YLFNvOigpPT5PLlMsQ1E6KCk9PmgsU246KC
k9PkYuUyx3YzooKT0+Yk6KCk9PnosRzA6KCk9PngsbnI6KCk9PncubixG
SzooKT0+Ti5GSyxITDooKT0+UyxXMzooKT0+ZixkcTooKT0+eSx0OTooKT0+ci50OSxPRTooKT0+ci5PRSxSczooKT0+ci5
ScyxIRjooKT0+Sy5IRixNUTooKT0+bC5NLF9IOigpPT5LLl9ILFYkOigpPT5YLFNvOigpPT5PLlMsQ1E6KCk9PmgsU246KC
k9PkYuUyx3YzooKT0+YixhNzooKT0+Qi5hLHo2OigpPT5yLno2LCQ2OigpPT5ULiQsQjooKT0+ZyxLbTooKT0+US5LLHR
ZOigpPT5aLGdqOigpPT5KLERoOigpPT5wLGdXOigpPT5DfSk7dmFyIHI9big3MTgyMjQpLG89big1MTg4MjApLGk9big
xMTcwNDcpO2NvbnN0IHM9Ik93YUNsaWVudElkIjtsZXQgYT1udWxsO2Z1bmN0aW9uIGMoKXt2YXIgZTtpZighYSl7Y
29uc3QgdD0obnVsbD09KGU9KDAsaS55KSgpKT92b2lkIDA6ZS5jb29raWUpJiYoMCxpLnkpKCkuY29va2llLnNwbGl0K
CJDbGllbnRJZD0iKVsxXSxuPXQmJnQuc3BsaXQoIjsiKVswXTtuPyhhPW4sYy5mZW5jZShhKSk6YS5mZW5jZSgpfXJldH
3cmJigwLG8uTFMpKHdpbmRvdyxzLG4pKTphPSgwLG8uclYpKHNlbGYscyl9cmV0dXJuIGF9dmFyIHU9big1NjQ0OTg

pLGw9big4MTc0MTUpO2xldCBILGQ9Iihub25lKSI7ZnVuY3Rpb24gZigpe3JldHVybiBIfWZ1bmN0aW9uIFMoKXtpZig
hZCl0aHJvdyBuZXcgRXJyb3IoIk9weCBoYXMgbm90IHJlc3BvbmRlZCB3aXRoIHRoZSBjb25maWcgeWV0Iik7cmV0dXJ
uIGR9ZnVuY3Rpb24gcChlKXtkPWV9ZnVuY3Rpb24gQyhlKXtIPWUudGhlbigoZT0+e2NvbnN0IHQ9ZS5zZXNzaW9uS
WQ7cmV0dXJuIHQmJigwLGwuQSkodCksZX0pKX12YXIgdj1uKDQ1ODgxNyk7ZnVuY3Rpb24gaCgpe3ZhciBlLHQ7cm
V0dXJuIDA9PShudWxsPT0odD1udWxsPT0oZT0oMCxpLnkpKCkpP3ZvaWQgMDplLmxvY2F0aW9uKT92b2lkIDA6dC
5wYXRobmFtZS5pbmRleE9mKCIvaG9zdGVkIikpfWNvbnN0IG09WyJ0ZWFtcyIsIm91dGxvb29rd2luLCJvdXRsb29rd2luMzI
iLCJvZmZpY2UiXSxJPVsiZGVza3RvcCIsIndlYiJdO2xldCBBO2Z1bmN0aW9uIGcoZSx0KXtjb25zdCBuPVt1LmttLHU0vV
YsdS5ySCx1LkJyLHUuJGJdO2xldCByOygwLHYuSkkpKCJob3N0QXBwIik/cj0oMCx2Lm1uKSgiaG9zdEFwcCIpLnRvTG9
3ZXJDYXNlKCk6KDAsdi5KSSkoInRlc3RIb3N0QXBwIikmJihyPSgwLHYubW4pKCJ0ZXN0SG9zdEFwcCIpLnRvTG93ZXJD
YXNlKCkpLHImJm4uaW5jbHVkZXMocikmJihBPXIpO2NvbnN0IG89aCgpO2lmKCFBJiZvKXtjb25zdCBuPShudWxsPT1l
P3ZvaWQgMDplLnRvTG93ZXJDYXNlKCkpfHwiIixyPShudWxsPT10P3ZvaWQgMDp0LnRvTG93ZXJDYXNlKCkpfHwiIjtl
JiZtLmluY2x1ZGVzKG4pJiZ0JiZJLmluY2x1ZGVzKHIpPyJ0ZWFtcyI9PW4/QT11LlVWOiJvdXRsb29rd2luMzIiPT1uP0E9d
S5ySDoib3V0bG9vayI9PW4/ImRlc2t0b3AiPT1yP0E9dS5Ccjoid2ViIj09ciYmKEE9dS4kYik6QT11LmttOkE9dS5rbX19Z
nVuY3Rpb24gUigpe3JldHVybiBBfXZhciBOPW4oNzY3NDU3KTtmdW5jdGlvbiBVKCl7cmV0dXJuKDAsTi5GSykoKT91L
kI1OmgoKT9SKCk6UygpfWN0aW9uIHkoXtyZXR1cm4iL293YSJ9dmFyIEs9bigyMDQ5MjMpLHc9bigzNTQwMi
k7ZnVuY3Rpb24gYigpe3JldHVybiJleGNoYW5nZWxhYnMubGl2ZS1pbnQuY29tIj09PSgwLGkueSkoS5sb2NhdGlvbi5
ob3N0fWxldCBQLGs7ZnVuY3Rpb24gRShlKXt2YXIgdCxuO2NvbnN0IHI9KDAsaS55KSgpLG89ci5kb2N1bWVudDtpZig
hUHx8ZSl7Y29uc3QgZT1udWxsPT0odD1udWxsPT1vP3ZvaWQgMDpvLmRvY3VtZW50RWxlbWVudCk/dm9pZCAw
OnQuY2xpZW50V2lkdGg7UD1yLmlubmVyV2lkdGgmJmU/TWF0aC5taW4oci5pbm5lcldpZHRoLGUpXX
aWR0aHx8ZXx8KG51bGw9bGw9PW9PW8/dm9pZCAwOm8uYm9keSk/dm9pZCAwOm4uY2xpZW50V2lkdGg
pfXJldHVybiBQfHwoUD1yLmlubmVyV2lkdGgga3x8IkRlc2t0b3AifXZhciBUPW4oMzc4MDkxKSxP