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## GLBR 22B

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# NOPBER OF SEMI-ANNUAL <br> PERIODS BETWEEN TWO DATES <br> (360 DAYS/YEAR) 

```
19 FFI&T "FIFET [HTE?"
20 IPNFUIT M. [,'T'
ZG FFIPNT "SEEORID [AFTE?"
40 IPNFUIT M1: [1. 'T'1
5 0 ~ F F E I P G T ~
```



```
PG FRINT "SEMI-FHWNUHL FEFIODE=":M
EG FFPI&T
G0 FRIR|T "HORE INFIIT? &1='ES, G=&O""
100 INFUIT [;
119 FFFINT
1玉G IF [=1 THEN 1E
120 EPND
```

```
19 IPFUIT "ENTEF: EETTLEMENT [PATE IN THE FORM MMLI'T"'": E
20 INFUT "ENTEF EOUFON &%", E
ZE INFUIT "ENTEF: MFTUFIT'T' DATE IN THE FOFM MMDD't"T",M
40 INFUUT "ENTEF: 'T'IELD".'r'
SG INFUTT "ENTEF: INLEEMENT wHLIE". I
EQ FFINT HE%CES
70 FEINT " 'T'IELE TO 击 FFEICE TQ"
8Q FEINT " MFTUFIT'r' MFTUFIT''"
90 I1=5% I : 'T'='T'-I1
```



```
*:1010)
```



```
G
120 IF MESETHEN 130:MS=MS+100
130 [: =60+6ME-5Ey+50+6M1-51%+ME-5z
140 FOF ド=1TG 11
150 R=100:G=[:GOEUE 20G:F'1=F
1G@ FRINTUEING 1PE.K.'T'F'I
17@ # ####.### ####.### ######## ####.##
180 Yx'Y+I NE'xT K
190 FRINT HESGQCOC%:STOF
200 IF 'TCOTHEN 21E:F=1日0:FETIFFW
210 IF G`=14491THEN 2%0
```



```
230 N=INT G%18E%:T=0:T1=G;1EG-N
240 GOSUB 300:F=F1
250 IF G<=14490THEN 260: N=N+1:GOTO 270
26日 T=T+1, 'G
27G GOSUE 206
280 F=INT(CF+T1*(F1-A))+10000+.5),1000
290 RETURN
```



```
+T>
310 F1=INT (F1*1000),1000
320 RETUIRN
```



```
玉g INFUT "EHTEF COUFON &%",E
ZG IHFUT "EPTEFE MATUEITG DHTE IH THE FOFM MMDLT"T", M
4E INFUIT "EPTTEF: & FFIEE",'T'
5G IPFUIT "EPTEF IPNEEFMEPT UFLLIE".I
GE FFOIHT HESCQSO:
TE FFRIPT " 'TIELD TG 砉 FFIEE TG"
EG FEINT " FIGTUFIT't' MRTUFIT'r"
9@ IT=5+I : 'r'=''\mp@code{T1}
```



```
+16日%
```



```
G
120 IF MEsETHEN 1Z0.NE=W+104
```




```
150 F'1='т
1EO FOF: K=1TG 11
1FE F=10日:G=[:GOEUE Z2G:T=E
IEQ FFIPTUSIHG A4G:F,'T'F1
```



```
200 IF G%=14491 THEN 2OG
```



```
22G W=INTGG,1BGO:T=G:T1=G,1SG-N
280 GDEUE 2G0:F=F1
240 IF GC=1440日THEN 25G:N=R+1:GOTO ZEQ
250 T=T+1,G:GOEUE 2GE:T=T-1.G:GOTO 2TG
ZG0 GחEUE 2G4
```



```
EG F:ETUFH
```



```
+T%
206 F1=IPTGF1:1090%1006
210 FETINFW
20'т=5:H1=1
230 GOGUE 2GE:F1=F
34E F1=F1-F1
30 LOEUE 44E
30日 E='T'-F1, FO
TG Z=E
```



```
SE E=IPTCE+1GEE+, S%1EGE
406 IF E:='T' THEN 4EE
419 'r'=`: F1=H1+1:IF F1<12 THEN ZES
42G ETOF "FFICE TO 'TIELD [OES NOT COPNEFGE"
4ZG FETIUFW
```




```
1)-(N+1)-1)?
460 }\because=%+%
```




```
490 <1=%1+%%
5G0 Fこ=%-%1
510 FETIMFH
```

```
TITLE: DISCOINT & PRICE ON
PROGRAM NO.: PF.02-2.2n0.01A-nOFI-4-0
TAPF ษก.: 701-0121
    DISCOUNT COPMERCIAI PAPER
```

10 F'RIPHT
2Q FFEINT "FFEINEIFFL?"
3Q IPFUIT F'
40 FFIMT "DISLDUNT FATE ©Q`"
50 INFUT F:
EQ FF:INT "DF't'E TO MATUFIT'T?"
TG INFUIT M
EM FRIINT
90 D=F'FF+NMEGG10
106 FF:INT "[ISEOURTT=": [
110 FFEIPTT "COST=":F-D
12G FF:IRNT
120 FF:INT "FORE INFUT? \&1='TES, E=FO\"
140 INFUIT F'
150 IF F=1 THEN 1E
1GQ ENJO

```
```

1E FFEIPTT
2G FREINT "FFEINEIFPLO"
SO IPFWUT F
AE FEINT "RIECOURT FETE?"
SG IPNFUT F:
EQ FREIPT "DH't"E TG MATUFIT't""
TE IPNFUIT M
EQ FFEIPT
G0 I=FF10E-F+MESE%

```


```

12@ FEINT
12E FFINT "PDEE INFUUT G1='TES,G=NG:"
14E INFUIT M
150 IF M=1 THEN 10
1GG EMS

```
```

10 FEINT
20 FFINT "FIFET DHTEMM, [, ',?""
25 INFIUT M, [0, 'T'
3G FFEIPT "SEODRAD [MFTE?"
ES INFUUT M1. [1. '1
40 L='r'
45 L1='T'1
5 0 ~ I F ~ M : 1 0 6 + [ 4 2 - g T H E N ~ E E ~
5E, L=''+1
G0 IF M1*:100+[12z2ETHEN 7E
E5 L1='T1-1
7GL=INT<CL+ZM*4
75 IF 4:LC=L1THEN GG
80 L=0
BS GOTD 9S
GG L=INT <L1;4)-L+1
95 IF M1>=MTHEN 120
100 M1=12+M1
119 'T'1='r'1-1
120 FOF: I=MTG M1-1
140 J=I-INT〔\&I-1),12`*12
150 IF J=4 THEN 2GE
1GQ IF J=GTHEN 200
165 IF J=GTHEN 206
170 IF I=11THEP 20E
18@ IF T= =THEN ここG
190 GOTD 23G
200 L=L-1
210 GOTO 230
22@ L=L-Z
2\Xi0 NEST I

```

```

250 FF:INT
260 PRINT "MORE INFUT?G1=4ES.0}0=|O%
27G INFUIT M
280 IF M=1 THEN 10
290 END

```
```

10 FFIRTT "FFIFNIIFHL?"
15 IPFIUIT F
20 FFEIPT "HP|\&UHL INTEFEST FHTE CQ?"
25 INFUT I
Z0 FFIPdT "LOHPN FEFIOD \&'TEFFE. MOHTHE`?"
5 INFUIT N:N
40 I= I 1200
45 N=12+N+N
50 M=F:\&I, < < 1+I O- <-N)
55 M=INTCM:166+,5%100
GQ FFINT
ES FF:INT "MONTHL't' F'H't'MENT=韦"; M
7G FFINT "TOTAL INTEFEST=婁"; 性吽-F
75 FFINNT
TG FRINT
BQ FFINT "[D 'TOU WANT MOFTGFGE THELE? <1=''ES. g=NO%"
85 INFUIT F::IF F=QTHEN GG9:GOGUE SG:GOTO 120
90 FFINT HE\&C0Z
11@ FRINT " ", "FFINLIFFHL"." ". "FFINCIFRL"
12Q FF:INT "MONTH", "OLITSTANIMING","INTEFEST", "REFF'TNENT"
125 RETUFN
130 EG=G:FOF K=1TG N:EG=EG+1

```

```

TO CONTINDE TFELE":GOSDE GG:EG=1

```

```

150 IF K<<N THEN 18G
100 F:=F
170 GOTG 190
1E@ R=M-I1
190 FRINT K,F.IN,F
206 F=F-R
210 NEMT K
390 FRINT K,F,I1,F
999 END

```

```

15 FF:INT "TG END FROLIEEHM ENTEF: G. G. E"
EG IPFFUT M, [,'T
ES IF M=0 THEN 1@1Q
Z0 IF H2% THEN EG
40 M=|+1こ
501 'T='T'-1

```

```

T0 N=INTC\&R-INT(N-7)O+T+ 5)
EG IF NG THEP GE
E1 FFIPAT "GHTUFDG'T"
ge gOTG gga
O4 IF R|1 THEN 1G4
\#1 FFIMNT "GI|N[MFT"
g% GOTO GGG
106 IF NNG THEN 11:1
101 FFINT "HONEHT"
102 GOTG 9GG
110 IF N> THEN 12S
111 FFEIMT "TUEEDPH'T"
112 GOTG 9%5
120 IF M. 4 THEPd 120

```

```

122 GOTG 9g9
120 IF RDE THEN L4E
131 FFIINT "THUFESMF'r"
122 GOTO 9GG
14日 FFEINT "FFEIDH'r"
999 FEINT
1E6G FFII|T "ENTEF: MOWTH. LH't'. 'T'EFF:"
1005 GOTG 2G
1010 ERN

```
```

10 FRINT
20 PRINT "AMOUNT OF ERCH FFHMENT"
3g INPUT F: FRINT
40 FRINT "INTEREST RATE,PFERIOD (%)"
5G IPPUT I: FRINT
G0 PRINT "TER:M OF RNNNUITY""
70 INPUT N: PRINT
90 I=I,100
100 PRINT "FMOUNT=曺"; INT\&E*< (1+I)-N-1),I*100+.5)/100
110 PRINT : FRINT
120 PRINT "MORE INFUT <1=4ES, 0=NO%"
130 INPUT R
140 IF R:=1 THEN 10
160 END

```
```

10 FRINTT
2G FF:INT "FFIICE"
30 INFUIT F': FF:INT
49 FFINT "FRNWHL INTEFEST FEFTE \&%"
SG INFUIT I: FFEINT
60 FF:INT "LIFE OF ETUP' FEFIDO (T'EG%"
T0 INFUIT N: FEINT
GG FEINT "FFOSFECTIYE NET EALYRGE URLUE RT END OF STUOY'FEFIOQ"
96 INFUUT L: FREINT
160 FFEINT
110 I=I,100
120 F:= (1+I) N
130 F:=CF-L\+CI+F)<E-1) % L+:I
140 FF:INT "B||NUFL [EET F'TMENT=本": INT(F**100+. 5),1EG
150 FFEINT
1E0 FRKINT
17G FRINT "MDFE INFUIT < 1=¢ES,G=NO\"
180 IPNFITT F'
199 IF F=1 THEN 10
2g@ EMO

```
```

10 FFIIHT
20 FRIRUT "SUM AFTEF: N 'GFE."
30 INFUT S: FFIINT
4G FRINT "NO. OF COMFGUNDINGG FEF:IOCG,T'R "
5 0 ~ I P F U U T ~ M : ~ F F : I N T ~
GG FFINT "FNNNFL INTEFEST F:HTE \&"
7G INPUT I: FFIINT
BG PRINT "NO. OF 'TRS. OF INWESTMENT"
GE INFUIT N: FFINT
100 FFEINT

```


```

13Q FF:INT : FFINT
150 FFINT "MORE IPNFITT \& }1=1=TES, 0=NO%"
1EG INFUT S
170 IF \Xi=1 THEN 10
190 END

```
```

10 FFEINT
20 FEIPT "FFIPEIFHL"
ZE IPFUT F: FREINT
4G FEINT "RO. DF COMFOUPADIPGG FEFIDOE,T'RE"
50 INFUIT M: FEINT
GG FFINT "EUN FT EN['OF N 'T'EHES"
PE INFUT S: FRINT
GE FFINT "NGO OF 'TEFEE"
GG IPFUIT R: FREIPT
100 FFEIHT

```

```

120 FFEINT : FREIRT
12g FFEINT "MOFE INFFUT \& 1='''EE 0=NO%"
148 INFUT M
150 IF M=1 THEN 1E
1EE EN[

```
```

10 FFINT
2Q F'RINT "FRINCIFHL";
SO INFUT F': FFIINT
40 FEINT "SUM HFTEF: N 'rF:S.":
50 INFUT S: FFEINT
EQ FRINT "RNO. OF 'TES.":
70 INFUT N: FRINT
8G FFINT
99 FFINT "EFFEETIVE INTEREST FATE="; (SNF`W(1,N)-1)*1GG
1GQ FF:INT : FFINT
12G FRINT "HORE INFUTT \&1='r'ES, E=NO%";
12G INFUT F
140 IF F=1 THEN 10
150 END

```
```

16 FF:INT
29 FFINT "INTIFL IN'ESTMENT";
39 IPFUT F: FF:INT
40 FRINT "ANNUHLL INTEFEST EATE IN THE FDEM % M%";
5G IPFUGT I: FREINT
GQ FRINT "NO. OF WITHDEFANALE,T'R ";
TG INFUIT M: FREINT
EG FRINT "ND. OF 'TES.";
90 INFUIT N: FFEINT
104 FRINT
110 I=I M1%164
120 F:F*(I)(C1+I)-(N+1)-1)+I)
130 FRINT "FMOUNT OF WITHDRANAL=韦":INTC100+F+, 5%100
146 FRINT : FFEINT
1GG FFINT "MOFE INFUT CL='TES G=NO:";
17G INFUIT R
1EG IF E=1 THEN 1E
194 END

```
```

10 FEINT
2G FRINT "ANOLNT OF NITHEFANHL":
Z0 INFUTT F: FF:INT
4@ FFINT "BNNUHL INTEFEST F:RTE ©%";
5 0 ~ I N F U T ~ I : ~ F F : I N T ~

```

```

70 INFUIT M; FEINNT
E日 FFINdT "NO. DF 'TEHFS":
G0 INFUT N: FFIINT
10日 FFFIPd
110 I=I,M10@
120 J= (1+I)-6 (d+|\

```

```

140 FEEIPT : FRINT

```

```

1GG IPFIITT F:
170 IF F:=1 THEN 1E
1B@ EN[

```
```

10 FRIPNT
20 FFINT "INNESTMENT";
SO IPNFUT F': FRINT
4E FREINT "FNNUNL INTEREST FEATE IN THE FOFM % MN";
50 INFUIT I: FREINT
EE FFINT "NO. GF CDMFOUNDING FEFIDOE,'RE.";
TQ INFUIT M: FFEINT
80 FFINT "ND. OF ''FE. INVESTED";
90 INFUIT N: F'FIINT
100 I=I,100,M
110 F'EINJT

```

```

130 FREINT : F'FINTT
150 FFINT "MOFE INFUTT \&1='TES. E=NO%";
1GQ INFUT F: IF F=1 THEN 10
1TG ENLD

```
```

10 FRINT
20 FRINT "SLM AFTER N Y'EFF"E";
30 INFUIT S: FRINT
4G FRINT "FRNUGL INTEFEST RATE IN FOFM %. M";
50 INFUTT I: PFINT
EG FRINT "NO. OF INVESTMENTE,'TR. ";
7Q INFUT M: FRINT
80 FRINT "NO. OF 'r'ES. ";
90 IPNFUT N: FFEINT
10@ FFINT
110 I=I/100,M

```

```

9106
130 FRINT : FRINT
150 FFINT "MOKE INFUT \&1=YES, G=NO%";
160 INFUT \Xi: IF \Xi=1 THEN 10
17@ END

```
```

1E FFINHT
2g FFIMN "FHOUNT DF FEFIDLIE INWEETMENT";
OQ INFUT F: FR:INT
4E FF:INT "FRNNDFL INTEFEST F:ATE IN THE FOFM % %M";
50 INFUIT I: FE:INT
EQ FRINT "NO. OF INMESTHENTE,T'R',";
TE INFUIT M: FFEINT
8G FFEINT "NO. OF 'TF'E.";
G0 INFUIT N: FFEINT
190 FFEINT

```


```

130 FFEINT : FFEINT
150 FFINT "MORE INFUT C1='TES, Q=NO%":
160 IPNFUIT I
17@ IF I=1 THEN 10
189 EMD

```
```

LG FFEPMT
2G FFIRT "FEIEE";
SG INPUT F: FEINT
4Q FEIPT "DEFEECIATIOR FHTE O%":
GG IPFUIT F: FEIPT
SEF=F,1EO
GC FFIPT "GGE AT ERL" UF 'UEFE TO EE GORSIDEFED";
TQ INFUT 't': FEIUT
80 FFINT
90 F=F+F+:1-F%-1%1%

```

```

11E FFEINT : FEIPT

```

```

1ZE IPFUTT F
140 IF F=1 THEN 10
156 EMD

```
```

TITLE DECLITIN:NG BATANCE:
DEPRECIATION RATE DTOCי. MO.: ?n

```
```

1G FFFIPT

```
1G FFFIPT
ZQ EFEIPT "FFITE"
ZQ EFEIPT "FFITE"
ZG INFUIT F: FFINT
```

ZG INFUIT F: FFINT

```


```

SG THFUT L: FFTHT

```
```

SG THFUT L: FFTHT

```


```

FG INFUIT R: FFEGRT

```
FG INFUIT R: FFEGRT
SG FEIPT
```

SG FEIPT

```


```

1GG FEIRT : FFIPdT

```
1GG FEIRT : FFIPdT
110 FFIMT "MOFE IMFUT & L=rEE.g=rM,"
110 FFIMT "MOFE IMFUT & L=rEE.g=rM,"
126 IMFUIT F
126 IMFUIT F
120 IF F=1 THEN 10
120 IF F=1 THEN 10
1.4E ENT
```

1.4E ENT

```
    PROGRAI MO.: PF. O2-22nn.nlA-OOFI-20.-9

```

10 FFIHT
OG FFIPT "FEIOE";
ZO INFUT F: FETMT
4G FPINT "DEFFECIHTIOR FHTE G%":
SG IRFUIT F: FRIMT
GG FRIPT "FGE BrEE 口";
7E IPFUT Pd: FFEINT

```

```

10G FFEIPT : FEIPT
12E FFIMT "MOEE IHFUT G1=''ES,G=FUO";
139 IPFUT F
14E IF F=1 THEN 1E
150 EME:

```
```

10 [10 E%50%

```

```

ZG INFUT "LAET 'rEHF: FOF HHISH FIGUFES FFE FHOwd". ME
40 I=1
5% FOF: I=N1TOMN
EQ FEIPT "SFLLES FOF: FEFIOE ":I:IPAFUT EGI%
TE I=T+1
EG NENT I
GE T=LOTGSO1%%
106 %
110 FOF: I=1TO NENM
120 L=LDGCSCI+1%)
12G T=T+L
140 U=U+I+L
150 PNEST I

```

```

17G G=ENFGFM-1
1EG FEIPT

```

```

204 FF:IPdT

```

```

2こG IPFUIT "'rEAF: GF IPTEFEST GFOF FFOTECTED SHLESO",M
2es IF M=0THEN ZEG
2-0 M1=M
240 M=N-N1
2EE FFIPMT "FFOTEGTEC EHLES FOF 'TEHF: ";M1:" =":S1+C1+GYM
270 GOTO 220
2gG END

```
```

ב FFTHT HEMGES
45T=E

```

```

10 IHFUT U1.%%,G

```


```

2E FFEINT
ES IF \&TE-T1`E\&=7日 THEN 5G

```

```

FEEMENT"
4G FFEIPT
45 GOTG15
59 IF 'r1*+T= =OTHEN EO
5.5 LET S='T'1
E@ FF:IHT "\&-G%IE IS THE LIPE: 'r=": S
G5 IF %1+%=4-6 THEN Ј
TE LET T=%1
7S FFINT "'-GMIS IS THE LIME: N=";T
EQ FFINT
ES FFIIPT
90 FFITHT
95 LET \Xi=¢5-41%E

```

```

1E@ FOF %=%1 TG NE GTEF F
110 LET 'T'=CFNCQ%-'1%',
115 'T=JNT\&'T', 5%
120 IF %OT THEN SEE
200 FOF T=G TO 'T'`
210 IF I='т' THEN 24E
2QE FF:INT "+":
22g GOTO 2SE
24E FF:IN| ":*";
25G NEMT I
2EO FRINT "'т"
2ア@ GOTO 42E
Z09 IF 'T'S'T'E THEN 41E
Z1Q IF 'T<'1 THEN 41E
3E IF S%='' THEN SEE
340 FFIINT TFECS%;"+": TAECt'; ":"
35G GOTG 42E
EEG IF E'Y THEN בOQ
Z7G FFEINT THEGT";"*"
OQ GOTG 42G
2gG FRIPd THEC'T': "*"; THECS%;"+"
40日 GOTO 42E
410 FF:INT TFECE%;"+"
42E NENT %
4EG FE:INT THECSO:"N"
1060 EPdD

```

```

Z FEEFD M
4 GIOTO 12G
gg milTO E玉G
12G FFIPT "LEFT N-ENWFOINT. FIGHT X-EPNFOINT, M-INIGEMENT%"
120 IFNFITT N1, G

```

```

15G INFUIT 21. 22.E
1EG FF:INT
17E LET Zこ=GZ-Z1%E
180 IF Zこ%=04THEN 210

```

```

HENT"
2gg MoTG 14G
210 FF:IHT

```

```

2卫0 FFIPT "r-F%IS IS THE LIPUE: X=";%I
240 FFIRNT
25G FFINT
20G FFINT
2FG FOF I=1 TO 11
2G日 FEFC F\#GI%
29G NEXT I
3GE FOF %=%1 TO NZ STEF A
30 GOTO 15
29G FOF: I=1 TO N
20 LET 'r\&I`=IHT\&\&'4I%-21%EE+.5%
Z40 NE%T I
250 FDF I=C TO 2E
SE LET E=G
ZO FOF T=1 TG N
2B6 IF 'GTYOI THEN 41E
390 LET \Xi=\Xi+1
40E1 LET T=T
410 NE%T I
420 IF S%Q THEP 450

```

```

440 GOTO 490
450 IF S%1 THEN 4EQ
4GQ FEINT R手T%:
470 GOTO 490
4EG FF:IPTT ":4";
490 NE:T I
500 IF NO% THEN 52G
510 FREINT "'т";
520 FREINT
50 LET A末<11)=" "
540 NEMT %
550 PrINNT "M"

```

```

SQ END

```
```

1 DIM %(91),4C90)
2N=90
3SELEET [
10 FFINT "FGS. ENDFOINT OF :}=\textrm{AKIS?": INFUT R: FRINT
15 FRINT "INCFEFENT IN \& IS:";R'EQ: FFINT "INCFEMENT IN 'T' IS:";R
1E
20 FF:INT : FRIINT
25 FOF I=1 TO N: T = 0699131>*I
30 <<I)=INT < CNNC(T)+COSCT),R+1)*:20+. S)

```

```

40 FOF: I=1 TO N: FOF: J=1 TO N-I

```

```

50 IF E=| THEN EO
55 <(T)=T: X(I+1)=F: 'T<T\=U: T(J+1)=\Xi
GG NEXT J: NEMT I
65 F:=1: S=01
70 FOF I=Q TO ЗG: F:=Fi+\Xi: \Xi=@
75 IF FON THEN BQ:IF T'RO=I THEN 90
80 IF I=18 THEN ES: FRINT THEG30%;"+": GOTO 290
85 U, XCU\=N+1: GOTO 23E

```

```

95 FOR J=1 TO S: FOR K=1 TO S-J
100 T=\(R+K-1): U=\(R+K)
110 IF TC=U THEN 120
120 <(R+K-1)=U: X(R+K)=T
13Q NE:YT K: NE:OT J
140 IF I=1G THEN 2こ0: U=0: K=-1
150 FOR J=0 TO S-1: IF K(R+J)=K THEN 2G00: K=XCR+J)
160 IF K=30 THEN 180: IF K<30 THEN 190
170 IF U=1 THEN 190: FRINT TAEC3G%;"+";: IF K`G0 THEN 2EQ
180 U=1
190 PRINT TAEGK): "*:"
200 NEXT J
210 IF U=1 THEN 280: PRINT TFB(30):"+";: GOTO 280
220 U=F
230 FOR J=0 TO EQ: IF \(U)<J THEN 2G0: FRINT "*:";
240 FOR K=U TO R+S-1: IF X(K)=X(U) THEN 250: U=k: GOTO 2ア0
250 NEXT K: GOITO 270
260 PRINT "+";
270 NE:xT J: FRINT "Q":
280 PFINN
290 NEYT I
300 END

```
```

10 [IM %4E10% '401%
2G FFEIMT "LONEF: %-ENDPGINT, UFFEF: X-ENDFOINT: %-INOEEMENT": INFUT
F1. H2.H
3G FEINT "LOMEF: 'T'-ENDFQINT. LFFEF: 'T'-ENDFOINT, 'T'-INDEEMENT": INFUIT
E1. E%.E
40 E==INTCE2-E1%E+.5%: IF EV<=7@ THEN 子E
SOFFINT "FAF|GE OF 'T' TOU LFFGE, CHANGE ENDFOINTS OF: INCFEFSE INEF
EMENT"'
GE GOTO 2G
TE FFINT : FF:INT "NO. OF FOINTE TO EE FLOTTEDT": INFUT N: FRINT

```

```

99 FFEIPT "ENTEF: FOINTS"
16@ FDF: I=1 TO N: INFUT XCI% 'GI%

```

```

120 NE\&T I : 'TCN+1)=75: FFEINT
130 FÖF I=1 TO N: FOF: I=1 TO N-I
14日 F:=%<J): S='T<J): T=%CJ+1): U='T<J+1)
150 IF FC=T THEN 170
160 Y(J)=T: 'T<J)=LI: X(J+1)=F: 'T'J+1`=\Xi 170 NE:%T T: NENT I: F:=1 18G FOF S=0 TO N-1: IF K(S+1) =0 THEN 1G0: NEYT S 190 FOF: I=0 TO INT(&H2-H1)MH+, 5): F:=R+S: S=0 2GG IF FNN THEN 210: IF %CPO=I THEN 230 210 IF I=g THEN 2EG: FFIN| "+": GOTO 4EQ 220 U=N+1: GOTO S9C 2\XiQ FOF J=F: TO N: IF NCTY`人CF THEN 24G: S=\Xi+1: NENT J
240 FOR J=1 TO S: FDF K=1 TO S-J
25日 T='T'(F+K-1): |='\'\&+K)
2G0 IF T<=U THEN こBG
270 'T'(R'+K-1)=L: 'T'(R+K)=T
2gQ NENT K: NENT J
290 FOF: L=0 TO S-1: K='T'(Fi+L`: IF K`=0 THEN 310: NEMT L
300 L=L+1
310 IF I=0 THEN 380: IF K=0 THEN 220: FRINT "+";
320 FOR T=L TO S-1
320 IF K\ES THEN 450:. IF 'T(R+J)=K THEN 350
340 FFIINT THE(K); "*";: K=1'(R+J)
350 NE:T J
360 IF KCO THEN 450: IF K. S2 THEN 450
270 FRINT TRECK);"*:";: GOTO 450
390 Ll=R+L
290 FOR J=0 TO E2: IF 'T<U\< J THEN 420: FRINT "*":
400 FOR K=心 TO F+G-1
410 IF 'T'<K'='т'<U) THEN 4EG: U=K: GOTO 44B
420 NE%T K: GOTO 440
430 PRINT "+";
440 NEYT J: FRINT "'T";
4 5 0 ~ P R I N T
460 NEXT I: FRINT ":Y"
470 END
100G ENA

```
```

10LIM FG255%
12 INFUIT "EPTEF THE ]MTEF",FLG \XiIZE".[:
15 IPFOUT "ENTEF THE TOTHL RUMEEE OF ERTFIES", H
OG FOF I=1TO H:FFINT "AC":I:",": INFUT HCIO:NENT I
OH!=FC1%
4E FOF I=Q TO N

```

```

GO=ACI`
TE IF HCIOH THEN GE
80 H=HCI%
GE PEST I
100 }:=L=
11E IF }\because=I\&TGLCN THE| 1GG
12G FOF M=1 TO [-1
12g 'T=CNHMO
14日 1F %=INTGCLMMES THEN 1BG
150 NEST M
10日 z=L
1FG GOTG 19日
1EQ Z=L-M
19G FFINNT "ERTFEIES", "HISTOMEFH"
20G FRIMT
21@ FOF I=? TO H \XiTEF [:
20日 FEITHT I,
20日 FOF I=1 TO N
24G IF ACTY =I+D THEP 2FE
2SE IF FCTMI THEH 2FE
2GG S=\Xi+1
OTG RENT T
2EG FOF: F==1 TO S
20% FFILMT "*":
ZEE NENT ド
Z10 = =
22g F'F:IPdT
ZE NENT I
T4 FFIPAT
3501 EMD

```
```

GE FEN SUEFOUTIPE FHUTGFISIHG NUNEFIGE
510 [EFFN ZEOSIM Pd,%
SGG FOE I=M-1 TO 1 STEF - 1
SE FOF T=1 TG I
54E IF C=1 THEPS SGO

```

```

555 GOTO 57G

```

```

GG PE%T T: NEST I
56G FETUFR
SGE FEM SUEFOUTIME FFGTOFISIHG FLFHG PNOMEFILS
G日G [EFFN 2TGB\#CI%NO
E1G FOF I-N-1 TO 1 \XiTEF - -
EQ FOF: T=1 TO I

```


```

    HFOT+1%=E*
    E4E PENT I: HE%T I
    GSE FETIFPN
    GE FEN GUEFOUTTIPE FFIGEIPNG IPTEEGEFG
    ```

```

    E日G 'T=N'2
    ```

```

    FEG 隹=G
    T1E FOR I=1 TO N-1 ETEF Z
    ```

```

    7-G M= M+1
    TGG PEST I
    TGOGR I=N, 2+1 TO N
    TES NOTY=G
    FFG NE%T I
    TEE FEETUFH
    7GG FEN GUEFOUIT IRE URFAEFIPGG IPTEGEFE
    BETE [EFFN" 2GCYCI%N%
    ```

```

    B1G FOF J=N TO 2 ETEF - - 
    ```

```

    SEG NENT T
    E40 FOF I=1TO N-1STEF 2
    ```


```

    GTG RUE%T I
    BEG FEETUFN
    SGE REM SDEFTUTIRE FHLTIRIO PDHEFILE
    GgG DEFFN EQ&XCI%, (%
    ```
```

91E 4'N

```

```

904 11=5
94E FOF I=1TO N-1ETEF 2

```

```

    1. EEGE
    960 m= M+1
97E NE%T I
9GQ FOF I=PdE+1 TO N
G9% 人%1)=0
1964 NEXT I
1010 FETIIFR
15%G FEM SUEFOUTIPNE URFFHCKIPGG RUNTEFIEE
1020 DEFFR* z1C%CI%.|゙
1048 'T=N'こ
105G IF 'T'INTCT'S=E THEN 1GES: N=N+1: NCNO=G
10E0 FOF: T=N TO ב \XiTEF - -
1070 %CJ-1)=%6%%
10EE PNET I
1096 FOF I=1 TO M-1 ETEF Z

```


```

11こG P\&E%T I
1120 FOF: I=1 TO M
1140 IF %CIYC1 THEN 1150: NTY=0
1150 PNE:T I
11GG FETUFN

```

```

2G INFUT [1. FI. '
2-00
25 0=[1:5286
27 H=H1% 174F72%2E-1

```

```

Z1 X='r'%16
Z2 IF M1 THEN ES
S C=L+1
40 IF }\because=\textrm{D}\mathrm{ THEP 2G0
45 IF NOD THEP\ 100
4E M=[-%
4 9 ~ I F ~ M = [ ~ T H E N ~ E S ~
5 6 ~ I F ~ M - 4 ~ T H E P \ ~ E G E ~
5z IF M<2g6 THEN ES
54 IF M\&1009 THEN EZ
SE IF M<eger THEH S4
5 9 ~ I F ~ M - 2 G E G E ~ T H E R ~ O 4 , ~
5 9 ~ I F ~ M \% 9 G G E 9 ~ T H E N ~ G 4 ,
GG GOTG E®
G IF 人D[ THEN 110
64 FFIPNT "'OUL LPNEEFEHOT E'r".|.|."FT."
EE FRIINT

```

```

GG IPNFUT H1.U
ア4 GOTD ご
80 FFINT "UEF'T' ELOEE! - TF''' FGHIN SHFFFGHOMTEF:!"
81 FOTO E2
82 FFINT "GETTINNG ELOEEF: - TF''T FIGHIN."
8S GOTO Gこ
84 FF:INT "TOUS PEEE MOFE FFHOTIEE - TE'T FIGFIR"
ES GOTO Eこ
GE FFINT "以H't DFF - MH'r'EE 'rOU NEED GLFESES!?"
87 GOTO G2
8日 FF:INT "[MUMM't'! 'r'ULI ELEW UF' 'TOUF: OWN EMFLLHLEMENT!!!!"
89 GOTD 22z
90 FRIINT "CITIZENG THFE COQEF:! THIS GI'T' IS [AHPGEFOUS!!!"
91 GOTO 62
G4 F'FINT "OFF E't'MILES! TF:'' HIGFIN."
95 EOTO G2
100 M=%-D
105 GOTO 50
110 FF:INT "rOUI QMEFSGHOT E'r".M. "FT. "
115 GOTG EG
206 FFINT "EODM!!! THF!GET [ESTF:D'E[!!!!"

```
```

EGE FFIHT "GONGFGTULFTIORS! 'TOUF: FFRHE IS:"
25 IF ESE THEH 214
2GE IF ECE THEN E15
207 IF E<< THEP Z2G
E0G IF C-15 THEV 2%G
21G FFIRUT "FEEFUIT IN \&HFIEGE OF F.F."
2% GTTO 2-2
214 FFIPAT "GEPEFFL I\& EHAFGE OF FETILLEF:'GIYIEIOR!"
215 GOTQ 2`
21E FFIS|T "EAFTAIN IN CHAF:GE DF HFTILLEF't' EOMF'HPN',"
217 GOTO zz

```

```

2-9 GOTO 2-
22G FFIPNT "FFG \& GHAFGE GF LGHCIPNG GI|N."
2%1 GOTO z2%

```

```

!!"
2こE FFIRTT

```

```

255 IFFUIT Z
2% FF:INT
Zこ日 IF Z=1 THEH LE
-5S END

```
```

1.%E

```

```

1E FFIINT
15 FFIPMT "FU|ES:"
2G FFIMT "1. IF F OF: 11 FOLLED OH FIFET FOLL. 'TOU WIP."
20 FFIPT "Z IF Z Z, OF 1z FOLLE[ UR, FIFET FOLL. 'OU LOSE. "

```

```

T"."

```

```

GE FFIPTT " OF F F IS FOLLED GTOU LEEE%."
TE FFEIHT "q. HOMSE LIMIT: F1EGE."
E日 F=G
GE FFEIPT
110 FFIPT "%OUF EET IE*"
120 IPFVUT E
120 GIGuE zeg
140 IF [S4 THEH 4EG
150 IF [:11. THEN SGE
1EQ IF [=12 THEN AGG
17E IF [O=7 THENS SE@
1E0 F=[
190 GOEUE ZEG
2G6 IF [=F THEN SEO
21E IF [=? THEP\ 4EE
2こ0 GOTO 15G
SGE FEM --FFOLL [IEE

```

```

2g [2=INTCE+FNDCNO+1?
Z0 [=[1+[2]
ES FFEINT "'TUU FOLL:":[%
246 FETUFN
AEE FF:INT "G'OU LOEE"
41E F=A-E
4EG GOTG 59
504 FF:IPdT "'TOU! NIP!"
51E F=H+E
520 IF F910EG THEN EGE
5E FF:IPdT "TOURF NIPNIPNGE AFE \&": }\overline{H
540 GOTG G6
GgG FFIPdT "COMGFACULATIGHE!! 'TOU EFOLEE THE HOUEE."
9%G EPLD

```
```

5 FFINT "+***TIG-TFIC-TGE+:***"
19 FPINT

```

```

    E:''"'
    ```

```

1/

```

```

ZQ FFIMT "[IGIT OF THE SFHGE 'TOUL MIEH TG DCLUF't' FOLLDWED E't A "
Z1 FFIMT "GFFEIFIGE FETUFH."
-5 FFINNT
50 [IM T\&G
55 FOF I=1 TO G
ET T\&I%=I
7G MENT I
75 E==

```

```

110 GOEUE ZGE
129 GOSUE 4EG
120 I= 9
14日 T=T+1
145 IF I=4 THEN 25G
15G E=FNNCF+1)
170 GOGUE FEG
1SG GDGUE 40E
196 IF F=FNLEE+4 THEN 14E
2G日 E=FFNCE+4%
22G GOEUE 2GG
20% GOTO 50G
250 E=FNECF+5%
2G日 GOGUE SGE
27G FFEINT
2GG FF:INT "GFME IE A [FGHN"
295 GOTO GGG
20日 T\&E)=0

```



```

ES FETUFN
4 0 1 9 ~ F F : I N T T ~
410 FF:INT "'TOUF: FOME":
42G INFUIT F
420 T CFO=11
435 FFFINT
44E FETLIEN
5 0 4 ~ F R E I N T ~
515 FREINT ":t:IOMFIITEF WINE*:*:"
60日G FFINT

```

```

E2G INFUIT N
EQS FF:INT
Gg IF N=1 THEN 55
999 END

```
```

1%1

```

```

120 FFINT :GOTO ZEG

```

```

ZG FFINT "rOUF: STHFTING EHLARNE IS 丰":\Xi
2GE GOTG 400: FFIPdT

```


```

\prime\prime
Z2E FFINT "IN THE OUHNTIT'T IF [OLLHFE,":FFIHT

```

```

E'T'."
ES FFEINT
EEQ FFIPT "HHER 'GOUF: EFLFRICE FEHCHES ZERO. THE GHME IS DMEF..."
ZG FFEIHT "OF ERTEF "E TO DUIT FH't TIME. GDOL LUCHE.."
SEQ GOTO EEQ

```

```

\#'т'':
41E INFUTT Z
42G IF z=E THEPN 44E: IF ZC+1 THEN 4TE
44E FF:IHT :FFIHT "... ILLEGHL FLH't'. . TF!r' MIGHIH":
4EG GOTD 410
4FE FFINT
4EG [IM FCZO,TEOFGZ,G
49 FOF I=1 TG Z:FOF I=1 TO E
519 FEFD FCI.J)
50日 NE%T J PEMT I:E4=0
550 FDF: I=1 TO Z
EEFECIOFRDC1%
STE FOF T=1 TO E:TGIO=T

```

```

EGE NE:T J
ENG NEST I
EG FOF: I=1 TG Z
E2G FFINT THEG(I-I)+EO
EG N=TCI)
E4E IF W=1 THEN TEE: IF N=2 THEN P2E

```

```

E日G IF M=5 THEN TEG:IF W=E THEN EQG
TGE FEIPAT "LEMOPd': GOTO EEG
TEG FESINT "CHEFE'T"; : GOTO S2Q
T4E FFIINT "OFRRNE";: GOTG E2E
FEG FFEIPT "FLL|I";: GOTG EこG
TEG FFINHT "EELL": : GOTO EこE
GEG FF:IPT "LIEEFT'T":

```
```

B2G HE:T I
830 [:=100*TT(1)+10*T(2)+T(3)
840 IF [=221 THEN 990: IF [=223 THEN 950
860 IF [=224 THEN 990:IF [=225 THEN 1010
880 IF 0=226 THEN 1030: IF [ = 3 33 THEN 1070
900 IF D=444 THEN 1090:IF D=555 THEN 1110
92G IF D=326 THEN 1130:IF D=446 THEN 1150
940 IF [=556 THEN 1170:IF D=6G6 THEN 1190
960 [=0
97G FRINT TAEC24):"...A LOSER";: GOTO 12\Xi0
990 [0=2*2
1010 [=4*2:GOTO 1230
1020 [0=6*2:GOTO 1230
1050 D=8*2:GOTO 1230
1070 D=10*Z:GOTO 1230
1090 D=12*2:GOTO 1230
1110 0=14*Z:GOTO 1230
1130 [=16*2:GOTO 1230
1150 [0=18*Z:GOTO 1230
1170 0=20*: :GOTO 1230
1190 D=INT (200+400*FNO(0))
1200 FRINT "YOU HAVE HIT THE JRCKPOT OF \&":D
1210 PRINT :E4=1
1230 S=5+[1-2
1240 IF S>0 THEN 1280:PRINT
1260 FRINT "YOU HRYE RUN OUT OF MONET......":GOTO 1420
1280 IF D=0 THEN 1310:IF E4=1 THEN 1310
1300 FRINT TAE(24);"...YOU WIN \$";D;
1310 FR:INT TRE(44); "EALRNCE=%";5;" RMOUNT";
1320 INPUT 2
1330 IF }Z=0 THEN 1360: IF Z<5+1 THEN 1390
1360 FRINT
1370 PRINT "... ILLEGRL PLRY...TRY RGRIN";:GOTO 1320
1390 FRINT
1400 GOTO 550
1410 PRINT
1420 PRINT "THE GRME IS OVER.. BETTER LUCK NEXT TIME.":GOTO 14TO
1 4 4 0 DRTA 0. 00, 0. 40, 0. 65, 1. 83, 0. 94, 1. 00

```


```

1470 PRINT :PRINT :PRINT :END
1500 END

```
```

1 %-1: DIN E\&5%, [45
5 [EFFNC(Y)=INT(12+FND(x)+1)

```

```

25 H=0
Z1 F==: FOF I=1 TO 5: CCI%, DGI%=0: NENT I
35 F'FINT :FEINT "TOUNR EET IS";: INFUT E: IF EG=0 THEN 35
3E FFEIPTT "T'OUF: CHF[S ARE:"

```

```

45 F=[CI%: GOEUE GGG
50 IF ECI)<1Q THEN 52: C<I)=10
5 2 ~ I F ~ D C I X 1 区 ~ T H E N ~ 5 4 : ~ [ < I ` = 1 0 ~
5 4 ~ N E M T ~ I ~

```

```

GG IF EC2)<<1 THEN 7@: IF C(1)<=S THEN 70
G5 NE=2
TG FFIPTT THECES%;"DEFLEF SHOWS:"; : F:=[C1): GDSUE GGG: FRINT
71 IF NE=2 THEN 210: BE=1:NG=2
72 F=F+1: IF F=E THEN 2G10
7` R:=0 TS FDF I=NE TO NG:IF EGI`<<1 THEN 95
80 PF:INT "IS 'TCU RCE 1 DR 11": : INFUT 2:I=XG
85 R=19: IF z=11 THEN 95
90 F:=日: IF 2<1 THEN 80
95 NEMT I
106 S=CC1)+C(2)+C(Z)+C44)+C(5)+R
105 IF S`21 THEN 260
11G FRINT "'TOUF: NOW HFWE:";S
115 FRINT "DO YOU WANT F HIT (1=YES,2=NO)":: INPUT Z
120 IF 2=2 THEN 400: IF 2<>1 THEN 115
125 [GF)=FND(Q):FRINT "YOUR CARD IS ";
130 F=CGP):GOSUE 900:PRINT :X8,N9=P:GOTO 72
2QG PRINT "CONGRATULRTIONS! 5 CRRD CHARLIE WINS!": FA=F+E
205 A=A+E: GOTO 220
210 FRINT "CONGRRTULRTONS! Y'OU HRVE ELRCKJRCK!"
215 A=A+2*E/2
220 PRINT "YOUR MINNINGS RRE:"; A
225 NE,S=0: GOTO 31
230 PRINT "DERLER BUSTS. YOU WIN!": GOTO 205
240 IF T>=5 THEN 250
245 PRINT "''OU WIN!": GOTO 205
250 FRINT "SORRY: DERLER WINS!": GOTO 2G5
260 FFINT "YOU BUSTED--YOU LOSE"
265 A=A-E: GOTO 220
400 F=2
405 R=0: FOR I=1 TO 5: IF D(I)<<1 THEN 415

```
```

410 F:=10: I=5
4.5 NEST I

```

```

42 IF T\&E THEN 4-0: T=T-F
4%G FFIINT "DEFLEF: HFE:":T
425 IF T`こ1 THEN こZG: IF T\1E THEN E46
4? F=F+1: IF F=E THE| こGG
44E [OFOFFNCO%
4 4 5 ~ F F I N T ~ " [ E F L E F : ~ G E T S ~ F " : ~ : ~ F = [ G F \% : ~ G O E U E ~ G E G : F F I N T ~
450 GOTO 405
9G0 IF FOL THEN GGS: FFINT " FIE": GOTO EZE

```

```

GLQ IF FELS THEN G15: FFINT " QUEEN";: GOTO ESS
915 IF FE11 THEN E2G: FRIPT " THCK":: GOTO O2E
92E FFEINT F:
925 FETUFH

```
```

TITLE: \IASS OF NITROGE: IN
CONTAINPENT SYSTEM

```
```

10 FFINT "EGFOHETFIG FEESELIEE \&IM HG. %""

```
10 FFINT "EGFOHETFIG FEESELIEE &IM HG. %""
20 IPFUIT F'1
20 IPFUIT F'1
2E FFIHT "COHTAIPNEMT FFESEUFE &IN. WATEFO?"
2E FFIHT "COHTAIPNEMT FFESEUFE &IN. WATEFO?"
40 INFUT F゙こ
40 INFUT F゙こ
SG FFIMT "DEWFOINT SERSOFE T1.TE &DEG. FY"
SG FFIMT "DEWFOINT SERSOFE T1.TE &DEG. FY"
EG IPFU|T T1.TZ
```

EG IPFU|T T1.TZ

```


```

EG INFUIT S1, E2, SE, S4

```
EG INFUIT S1, E2, SE, S4
90 FT= 4911E+F1+. 01E 2-7*F%
90 FT= 4911E+F1+. 01E 2-7*F%
100 TS=CT2+T1%G
100 TS=CT2+T1%G
11E FFIINT "FHFTIHL FFEESSUFE DF WATEF UHFOF EHEED ON "
11E FFIINT "FHFTIHL FFEESSUFE DF WATEF UHFOF EHEED ON "
1%G FFEINT "DENFOINT OF";TS:"OEG. F. %"
1%G FFEINT "DENFOINT OF";TS:"OEG. F. %"
12Q IPJFUIT %
12Q IPJFUIT %
140 F4=F"3-%
140 F4=F"3-%
155 58=45% E+6 51+5%+52+5434
155 58=45% E+6 51+5%+52+5434
160 FFINT "NASS OF N=", 2EESTF4,SE;"LE."
160 FFINT "NASS OF N=", 2EESTF4,SE;"LE."
17G END
```

17G END

```
    PROGRAY NO.: PS.05-2200.91A-00FI-34-n TAPE NO.: 7n1-01.21
```

10 FEIPT
ZQ FFINT "CORNENTEATION \&LOH STFNUHFDO?"
Z0 INFUT E1

```

```

50 INFUIT C2
EQ FRIPGT "FEFOEPTFGE GLOW ETANDHFDO?"
7Q IPFUT H1
GQ FEINT "FEFEERTHGE GHIGH STHR\&HFLOZ"
90 IPFIIT FE
10G FFEINT

```

```

120 IPFUT A
125 IF H=E THEN 1E0

```

```

140 FRINT "CORCENTEAT IORA=":G
150 FFINT

```

```

170 GOTD 12G
18G END

```

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