## !- Compact code

```
0 = ads, b, q = (0), v, w, q = (0), q, h, q, n, n, t, r, f, c, r
(y+2):y=y+3:forj=atoa+b:d=peek(y+h) and 15:fork=.tod:pokej+k,.:next:j=j+d:pokej,peek(y):y=y+1:next:dimr(3),d(3):deffnd(i)
=360+i*45:deffnr(f)=int(9-fnm(r(f))*9)
11$=n$+n$:deffnm(i)=i-int(i):print"{clear}hi sc:"hs"{down*2}"TAB(34)a$:PRINTb$:print" "1$q$1$1$n$:printTAB(12)"{reverse on}{orange}
{169}{160}":print"{up*2}"tab(31)"{reverse on}{light gray}{187}{gray}{172}{left*2}
{down}"::fori=0to18:printh$::next:t=1599:b=0:l=3:deffnp(i)=((822.4+peek(r+i+i)/8+int(peek(4567+i+i)/8)*40) andg-1)+g:m=5:deffnx(z)=int
((r(1)+r(2)-2)*r(0)):fori=0to2:r(i)=1:next
2deffnu(i)=int(rnd(1)*i):t=int(t)+1.01:u=-(t<1605):l=1*u:on-(l=0)goto8:print"(home)(home)":SYS65520,0,fnu(9)+11,fnu
(24):print "freverse on fgray "mid$ (r$, fnu (15) +1,10): window33,5,39,24:print "fclear ":m=m+fnx(.):movspr2,20,99:movspr1,230,230:z=bump
(1):fori=.to3:s(i)=1:d(i)=i:on-(i<2)gosub9:next:g=fnu(3)+2:sprite2,1,q:sprite1,1,1
3d(1)=d(1)+(fnu(3)-1)*fnu(2):i=1:gosub9:re=.:de=.:print"{down}{home}{black}{reverse off}"mid$(str$(t),2,7)"{down}{red}
S";1:print" {yellow}0{white}'m:print"{light gray} +"fnx(.):print:forj=0to2:print:printmid$(c$,j*10+1,10)"{reverse off} O"fnr
(j):printmid$(t$,1,r(j)):next:data"{reverse on}{light gray}{169}{gray}{127}{reverse off} {reverse on}{169}{dark gray}M"," {green}{094}
{094} {094} {orange}...{172}{172} {reverse on}{brown}P{160}O{reverse off} {orange}{187}{187}... {green}{094} {094}{094} {094} {094}
{094} {reverse on}{light gray}{169}{gray}{127}{light gray}{169}MN{gray}{127} {dark gray}{163}","{home}{home}retired, "
4 \circ (px+1) : c = (px+1) : c =
(x<26orx>248ory<92ory>228):on-wgosub9:px=px+2:next:getk$:poke198,0:k=asc(k$):da=(k$="d")-(k$="a"):i=.:d=d(.)-da:d(.)=dand7:s=s(.):ws=
(k\$ = "w" and s < 3) - (k\$ = "s" and s > .)
5s(.) = s - ws : w = .: i = .: on (da = .andws = .) + 1 gosub9 : sprite3, (b < t) + 1 : t = t + .5/g : on - (fnm(t) > .129) goto2 : on - (k$ = "") goto4 : pokef, .: k0 = -
(k\$ - 0) and k\$ - 0; on k go to k\$ - 0; on k go to k\$ - 0; on k go to k and k and k are k and k are k and k are k are k and k are k are k are k and k are k and k are k are k are k and k are k and k are k are k and k are k are k are k and k are k and k are k are k are k are k are k and k are k are k and k are k are k and k are k are k are k are k and k are k are k are k and k are k are k and k are k and k are k are k and k are 
#1:b=t+.7/q*r(1):sprite3,1:qoto4
6a=k-49:p=fnr(a):bu=(r(a)<6andm>=p):m=m+p*bu:r(a)=int(r(a)-bu):print"{down}{clear}":goto3:data"{clear}{black}{reverse on}P{reverse off}
u@a{reverse on}P{reverse off}{pound}k{reverse on}{191}{cvan}{reverse off}f{black}n{cvan}h{black}i@q{reverse on}{248}{reverse off}b88<n
\{reverse\ on\} a \{reverse\ off\} b \{reverse\ on\}. \ \{reverse\ off\} b \{reverse\ on\}. \ \{reverse\ on\}. \ \{reverse\ on\} b \{reverse\ on\}. \ \{reverse\ on\}. \ \{reverse\ on\} b \{reverse\ on\}. \ \{reverse\ on\} b \{reverse\ on\}. \ \{reverse\ on\} b \{re
\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\}
{black}@{reverse off}@{reverse on}.@{reverse off}@{reverse on},fpound}@{reverse off}@{reverse on}.fpound}@{reverse off}@{reverse on}.fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpound}@{fpoun
\{reverse\ on\}\{240\}\{reverse\ off\}C\{192\}\{reverse\ off\}C\{191\}\{reverse\ on\}\{192\}\{reverse\ off\}C\{reverse\ off\}C\{re
\{reverse\ on\}\{192\}\{light\ gray\}\{reverse\ off\}\emptyset\{blue\}\emptysetna\$\{black\}h\{red\}^*\{reverse\ on\}^*(\{reverse\ off\}l0\{reverse\ on\}^*n^*\{reverse\ off\}l0\{reverse\ on\}^*n^*\}\}
 ({reverse on}W{191}{reverse off}<n{reverse on}{192}"
7pokec, 32:if(z=0orz=5orz>9) and (pc=32) then return:elseo=.:on-(z=9orz=3) goto8:v=peek(c+h) and 15:on-(v>3andpc>32) goto8:o=1:on-(z=6)
goto8:m=m+int(r(2)):return:data"{reverse off}>{white} {red}({reverse on})8*2{white}{reverse off}b{black}:@b{reverse on}:{reverse off}b{black}:
\{reverse\ on\}\ 2\{reverse\ on\}\ \{reverse\ on\}\ 8\{reverse\ on\}\ \{reverse\ on\}\ \{r
{reverse off}@c{reverse on}{253}{192}{reverse off}@?{reverse on}{192}{reverse off}@c{reverse on}{192}{1ight gray}{reverse off}@{white}
@o{pound}f{black}1{red}71", "{home}{home}died, ","{gray}{185}{185}{164}{164}{164}{164}{164}{185}{185}{185}}", "{reverse on}{light gray}{161}
{reverse off} {gray} {161} {left*2} {down}"
8sprite3,.:fori=1to16:spriteo+1,1,i:next:c=fnp(o):pokec,81:pokeh+c,o:fori=.to2:r(i)=r(i)-.1*(q-2<>i):next:q=fnu(3)
+2:sprite2,1,q:poke4568,(peek(r)+128)and255:z=bump(1):l=l+(o=0):de=-(o=0):ifl>0thenre=1:return:elses=m+fnx(.)*5:a=hs<s:hs=(a+1)*hs-
a*s:printg$(u)s$(-a)s:sprite1,0:sprite2,0:pokef,.:waitf,1:goto1
9d(i) = d(i) * (w+1) - (2*sgn(x-150) + sgn(x-150) * sgn(y-150) + 4) * w:movspri+1, fnd(d(i)) # s(i): j=4482+i*11:pokej, peek(j)/4:pokej+2, peek(
```

```
(j+2)/4:poke2040+i,56+(d(i) and3):return:data1024,53248,"{reverse on}{light gray}{162}{162}{162}{162}{162}","{reverse on}Z{161}{161}{161}
{161}, 4566, 208, "{white} fr ttl {reverse on} 1{red} en qun {reverse on} 2{cyan} sp trs {reverse on} 3", "{light gray} {169} {gray} {127} {up}
{left}{light gray}{169}{gray}{127}{gray}{169}{dark gray}{127}{up}{left}{light gray}{169}{gray}{127}{gray}{169}{dark gray}
{127}", "sc:", "hi sc:"
!- Detailed code
0 = ads, b, q = (0), v, w, q = (0), q, h, q, n, n, t, r, f, c, r
(y+2):y=y+3:forj=atoa+b:d=peek(y+h) and 15:fork=.tod:pokej+k, .:next:j=j+d:pokej, peek(y):y=y+1:next:dimr(3), d(3):deffnd(i)
=360+i*45:deffnr(f)=int(9-fnm(r(f))*9)
!- Line 0 - Game initialization
!- Read values from data blocks
                 v$, w$
                                                                                        sprite data
                 a$, b$, q$, n$, h$
                                                                                        graphics (port, line drawing)
                 t$
! -
                                                                                        titles
1 _
                 r$
                                                                                        rocks
                q$(0/1)
                                                                                       vou retired / died
                                                                                        sc / hi sc
                s$(0/1)
                                                                                        1024 screen start
                 a
! -
                                                                                        53248 sprites
                 n
!- Compressed sprite reader
                 y=q
                                                                                        read start at upper left screen code
                 h=q+n
                                                                                        color map offset (55296-1024=54272)
! -
                 printv$w$
                                                                                        print compressed data
                fori=.to7
! -
                                                                                        8 blocks (5 sprites + VIC poke data)
                       a=peek(y)*256+peek(y+1)
                                                                                        read target code
! -
                                                                                        read number of bytes to put
                       b=peek(y+2)
! -
                       y=y+3
                                                                                        increase screen pointer
                                                                                        put bytes from a..a+b
                       forj=atoa+b
                                   d=peek (v+h) and15
                                                                                        read color of screen character
                                   fork=.tod
                                                                                        put 0s based on the color (black: no additional zeroes, white: +1 zero)
                                         pokej+k,.
                                   next
                                   j=j+d
! -
                                   pokej,peek(y)
                                                                                        copy the screen code to target memory
                                  y=y+1
! -
                       next
                 next
!- Arrays
                 dimr(3),
                                                                                        Ranks
                       d(3)
                                                                                        Directions of ships
```

```
Calculate degree from direction 'i'
       deffnd(i) = 360 + i * 45
       deffnr(f) = int(9 - fnm(r(f)) * 9) Price to buy rank of nation f
11$=n$+n$:deffnm(i)=i-int(i):print"{clear}hi sc:"hs"{down*2}"TAB(34)a$:PRINTb$:print" "1$q$1$1$n$:printTAB(12)"{reverse on}{orange}
{169}{160}":print"{up*2}"tab(31) "{reverse on}{light gray}{187}{gray}{172}{left*2}
{down}";:fori=0to18:printh$;:next:t=1599:b=0:1=3:deffnp(i)=((822.4+peek(r+i+i)/8+int(peek(4567+i+i)/8)*40)andg-1)+g:m=5:deffnp(z)=int
((r(1)+r(2)-2)*r(0)):fori=0to2:r(i)=1:next
1-----
!- Line 1 - Draw port, a few other inits
       1$=n$+n$
! -
                                     Screen drawing
       deffnm(i)=i-int(i)
                                  Fractional part
       print...
                                    Screen drawing, high score
       fori=0to18:printh$;:next
                                      Draw vertical line
! -
      t = 1599
                                      Starting year init (+1 later)
! -
      b=0
                                      Gun life cycle management
      1 = .3
                                      Remaining lives
1 -
! -
       m=5
                                      Actual money
                                      Staring ranks
      fori=0to2:r(i)=1:next
       deffnx(z) = int((r(1) + r(2) - 2) * r(0))
                                      Annual income
       deffnp(i) = ((822.4 + peek(r+i+i)/8 + int(peek(4567+i+i)/8)*40) and q-1) + q
                                      Character under sprite i
2deffnu(i)=int(rnd(1)*i):t=int(t)+1.01:u=-(t<1605):l=1*u:on-(1=0)goto8:print"{home}{home}":SYS65520,0,fnu(9)+11,fnu
(24):print"{reverse on} {gray} "mid$ (r$, fnu(15)+1,10):window33,5,39,24:print"{clear}":m=m+fnx(.):movspr2,20,99:movspr1,230,230:z=bump
(1):fori=.to3:s(i)=1:d(i)=i:on-(i<2)gosub9:next:q=fnu(3)+2:sprite2,1,q:sprite1,1,1
!- Line 2 - New year init
·
       1 _
      t=int(t)+1.01 add 1 year and first month u=-(t<1605) retirment needed? l=1*u if year is 1605, no more 'lives' on-(l=0)goto8 if no more lives, go to ship sink management print"{home}{home}" leave defined window
      SYS65520,0,fnu(9)+11,fnu(24) random position for rocks
                                      show random rock
! -
      print...r$...
      window33,5,39,24:print"{clear}" clear status window
! -
       m=m+fnx(.)
                                     add anual income
       movspr2,20,99:movspr1,230,230 position sprites
                                      clear collision flag (to avoid double death)
       z=bump(1)
       fori=.to3
                                      set ship speed and direction
              s(i) = 1:d(i) = i
              on-(i<2)gosub9
                                      set ship into motion (on part not needed -
3 enemy ships was too slow, too much problem with collision detection)
```

```
! -
            next
1 —
            q=fnu(3)+2
                                                               random color for enemy ship
            sprite2,1,q:sprite1,1,1
                                                               show sprites, set colors
3d(1)=d(1)+(fnu(3)-1)*fnu(2):i=1:gosub9:re=.:de=.:print"{down}{fnome}{black}{reverse off}"mid$(str$(t),2,7)"{down}{red}
S";1:print" {yellow}Q{white} "m:print" {light gray} + "fnx(.):print:forj=0to2:print:printmid$(c$,j*10+1,10)" {reverse off} Q"fnr
(j):printmid$(t$,1,r(j)):next:data"{reverse on}{light gray}{127}{reverse off} {reverse on}{169}{dark gray}M"," {green}{094}
{094} {094} {orange}...{172}{172} {reverse on}{brown}P{160}O{reverse off} {orange}{187}{187}... {green}{094} {094}{094} {094}
{094} {reverse on}{light gray}{169}{gray}{127}{light gray}{169}MN{gray}{127} {dark gray}{163}","{home}{home}retired, "
1-----
!- Line 3 - Status box
           d(1)=d(1)+(fnu(3)-1)*fnu(2) randomize enemy movement with a 33% chance
                                    set enemy ship into movement
          i=1:gosub9
      re=.:de=.
                                                            no repaint needed, not died vet
      print...mid$(str$(t),2,7)... convert float to date string
! -
                                                               show money, income, lives, ranks
         print...
                                                                data for line0 read
1 —
            data...
(x<260rx>2480ry<920ry>228):on-wgosub9:px=px+2:next:getk$:poke198,0:k=asc(k$):da=(k$="a")-(k$="a"):i=.:d=d(.)-da:d(.)=dand7:s=s(.):ws=
(k$="w"ands<3) - (k$="s"ands>.)
5s(.)=s-ws:w=.:i=.:on(da=.andws=.)+1gosub9:sprite3,(b<t)+1:t=t+.5/g:on-(fnm(t)>.129)goto2:on-(k$="")goto4:pokef,.:k0=-
(k\$ - 0^n 
#1:b=t+.7/g*r(1):sprite3,1:goto4
1-----
!- Line 4-5 - Ship navigation, fire
1-----
! -
                             repaint needed?
! -
            z=bump(1):c=fnp(.):pc=peek(c) z: collision, c: screen code under hero, pc: character under hero
            on-(pc<>32orz=3orz=6)gosub7 if character is not space, or ship collision, or ship hit by qun, call collision sub
! -
            ondegoto2
                                                                if player died, go to next year
           px=n
                                                                sprite positions
            fori=.to1
                 x=peek(px):y=peek(px+1)
                                                               get coords of sprite i
                 w = (x < 26 \text{or} x > 248 \text{or} y < 92 \text{or} y > 228) edge of playfield detected
! -
                 on-wgosub9
                                                                position, using w
! -
                 px=px+2
! -
            next
! -
            getk$:poke198,0:k=asc(k$)
                                                               read key, clear key buffer
! -
            da = (k\$ = "d") - (k\$ = "a")
                                                                navigate left or right
! -
            d=d(.)-da:d(.)=dand7
                                                                set direction
                                                                get speed
            ws=(k$="w"ands<3)-(k$="s"ands>.) speed change needed?
            s(.) = s - ws : w = .
                                                                set speed
```

```
i=.:on(da=.andws=.)+1gosub9
                                                                                                                                            change player motion
                           sprite3, (b < t) + 1
                                                                                                                                           hide gun if time is up (b<t)
                           t=t+.5/a
                                                                                                                                           increase date by cca 1 day
! -
                           on-(fnm(t)>.129)goto2
                                                                                                                                           vear is over
! -
                           on-(k$="") goto4
                                                                                                                                           no key pressed, go back to navigation
! -
                           pokef,.
                                                                                                                                           clear buffer
                           k0=-(k$>"0"andk$<"4"):onk0goto6 call rank buying sub
                           qe = (k\$ = "q") - (k\$ = "e")
                                                                                                                                           guns fired?
! -
! -
                           on-(qe=.orv(4)>.)goto3
                                                                                                                                           go back to line 3 if no Q or E pressed
! -
!- Fire guns
                          movspr3, peek(n), peek(n+1)
                                                                                                                                           starting is at player's ship
                          movspr3, fnd(d+(18/(s+9)*qe))#1 set direction, using player's speed
                          b=t+.7/q*r(1)
                                                                                                                                         set lifetime
! -
                           sprite3,1:goto4
                                                                                                                                           show sprite, and restart navigation
6a=k-49:p=fnr(a):bu=(r(a)<6andm>=p):m=m+p*bu:r(a)=int(r(a)-bu):print"{down}{clear}":goto3:data"{clear}{black}{reverse on}P{reverse off}
u@a\{reverse\ on\}P\{reverse\ off\}\{pound\}k\{reverse\ on\}\{191\}\{cyan\}\{reverse\ off\}f\{black\}n\{cyan\}h\{black\}i@q\{reverse\ on\}\{248\}\{reverse\ off\}b88<n\}
{reverse on}a{reverse off}%h{red}(.{reverse on}*nl{black} {reverse off}b{reverse on}. {reverse off}b{reverse on}.
\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\{reverse\ on\}^*\}
\{black\} \emptyset \{reverse \ off\} \emptyset \{reverse \ off\} \emptyset \{reverse \ on\}. \{reverse \ on\} \} \emptyset \{reverse \ on\}. \{reverse \ on\} \} \emptyset \{r
\{reverse\ on\}\{240\}\{reverse\ off\}C\{192\}\{reverse\ off\}C\{191\}\{reverse\ on\}\{192\}\{reverse\ off\}C\{reverse\ off\}C\{re
\{reverse\ on\}\{192\}\{light\ gray\}\{reverse\ off\}\emptyset\{blue\}\{na\$\{black\}h\{red\}^*\{reverse\ on\}^*(\{reverse\ off\}l0\{reverse\ on\}^*n^*\{reverse\ off\}\}\}\}\}
({reverse on}W{191}{reverse off}<n{reverse on}{192}"
!- Line 6 - Rank buying
! -
! -
                         a = k - 49
                                                                                                                                          get rank index from keycode (key 1..3->0..2)
                                                                                                                          get rank price
higher rank exists and it is affordable
                p=fnr(a)
              bu=(r(a)<6andm>=p)
                                                                                                                                          decrease money if it is possible to buy
                      m=m+p*bu
                         r(a) = int(r(a) - bu)
                                                                                                                                          set new rank
                          print"{down}{clear}":goto3
                                                                                                                                          show status
                           data...
                                                                                                                                           sprite data
7pokec, 32:if(z=0orz=5orz>9) and (pc=32) then return:elseo=.:on-(z=9orz=3) goto8:v=peek(c+h) and 15:on-(v>3andpc>32) goto8:o=1:on-(z=6)
goto8:m=m+int(r(2)):return:data"{reverse off}>{white} {red}({reverse on})8*2{white}{reverse off}b{black}:@b{reverse on}:{reverse off}@6
\{reverse\ on\}\ 2\{reverse\ on\}\ \{reverse\ on\}\ 8\{reverse\ on\}\ \{reverse\ on\}\ 0\{reverse\ on\}\ 0\}
\{reverse\ off\} \{c(reverse\ on), (253), (192), (reverse\ off)\} \{reverse\ off\} \{rever
@o(pound)f(black)1(red)71","(home){home}died, ","(gray){185}{185}{164}{164}{164}{164}{164}{185}{185}","(reverse on){light gray}{161}
{reverse off}{gray}{161}{left*2}{down}"
!- Line 7 - Collision detection
                          pokec,32
                                                                                                                                  clear character under player
```

```
! -
                   if (z=0 \text{ or } z=5 \text{ or } z>9) and (pc=32) ... if no relevant collision, return
1 _
                   else
                   o=.:on-(z=9orz=3) goto8
                                                                                                 ship hit by enemy ship or enemy gun (removed due to 10 line limit)
                   v=peek (c+h) and15
                                                                                                 screen color of current char
                   on-(v>3andpc>32)goto8
                                                                                                if hit by a rock, go to collision
! -
                   o=1:on-(z=6) goto8
                                                                                                if enemy ship hit
1 _
                   m=m+int(r(2)):return
                                                                                                 coin collected, increase money
                   data...
                                                                                                 sprite and other data for line 0
8 \text{sprite3}, .: \text{fori=1to16:spriteo+1, 1, i:next:c=fnp(o):pokec, 81:pokeh+c,o:fori=.to2:r(i)=r(i)-.1*(q-2<>i):next:q=fnu(3)
+2:sprite2,1,q:poke4568,(peek(r)+128)and255:z=bump(1):l=l+(o=0):de=-(o=0):ifl>0thenre=1:return:elses=m+fnx(.)*5:a=hs<s:hs=(a+1)*hs-
a*s:printq$(u)s$(-a)s:sprite1,0:sprite2,0:pokef,.:waitf,1:goto1
1-----
!- Line 8 - Destroy player/enemy ship
! -
! -
                   sprite3,.
                                                                                                hide weapons
! -
                   fori=1to16:spriteo+1,1,i:next blinking
1 -
                   c=fnp(o):pokec,81:pokeh+c,o
                                                                                                create a coin
! -
                  fori=.to2:r(i)=r(i)-.1*(g-2<>i):next increase ranks for the other countries
! -
                  q=fnu(3)+2:sprite2,1,q
                                                                                                new ship color
                  poke4568, (peek(r)+128) and255
                                                                                                move enemy ship far away to avoid double collisions
! -
                  z=bump(1)
                                                                                                reset collision
                  1=1+(o=0):de=-(o=0)
                                                                                                if player collided, decrease lives, set death flag
                  ifl>0thenre=1:return
                                                                                                 if player has remaining lives, return, status refresh needed
                  else
                  s=m+fnx(.)*5
                                                                                                 final score=current money+5*annual income
! -
                   a=hs < s:hs=(a+1)*hs-a*s
                                                                                                 hs=max(hs,s)
! -
                                                                                                 you retired/died with a score/high score
                  printq$(u)s$(-a)s
1 —
                  sprite1,0:sprite2,0
                                                                                                 hide sprites
                  pokef,.:waitf,1:goto1
                                                                                                 clear buffer, restart
9d(i) = d(i) * (w+1) - (2*sgn(x-150) + sgn(x-150) + sgn(y-150) + 4) *w:movspri+1, fnd(d(i)) #s(i): j=4482+i*11:pokej, peek(j)/4:pokej+2, peek(j)
(i+2)/4:poke2040+i,56+(d(i) and3):return:data1024,53248,"{reverse on}{light gray}{162}{162}{162}{162}{162}{162}{162}{1.62}{1.62}{1.62}{1.62}{1.61}{1.61}{1.61}{1.61}{1.61}{1.61}{1.61}{1.61}{1.61}{1.61}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.62}{1.6
{161}, 4566, 208, "{white} fr ttl {reverse on} 1{red} en qun {reverse on} 2{cyan} pr trs {reverse on} 3", "{light gray} {169} {gray} {127} {up}
{left}{light gray}{169}{gray}{127}{gray}{169}{dark gray}{127}{up}{left}{light gray}{169}{gray}{127}{gray}{169}{dark gray}
{127}", "sc:", "hi sc:"
!- Line 9 - Set ship movement
                   d(i) = d(i) * (w+1) - (2*san(x-150) + san(x-150) * san(y-150) + 4) * w
! -
! -
                                                                                                 if edge of playfield detected, move towards centre
! -
! -
                   movspri+1, fnd(d(i)) #s(i)
                                                                                                 set direction with speed s(i). However, even speed 1 is way to fast!
                   j=4482+i*11:pokej,peek(j)/4:pokej+2,peek(j+2)/4
                                                                                                 hack sprite movement routine of c128, divide calculated speed by 4 (horizontal and vertical)
                   poke2040+i,56+(d(i)and3)
                                                                                                set sprite shape according to direction
```

- return
- ! -! data...