editor ??

| | | |
|---|---|---|
| | main | hl = optmsg |
| 006 | | b = 001 |
| 001 | | |
| 315 | | call outpag |
| 315 | | call inpchr |
| 376 | | i-a |
| 342 | | 342 |
| | | cz Build |

Editor ??



```
MAIN    hl= OPTMSG, b='001
Call    OUTPAG
Call    INPCHR
i-a'342
cz  BUILD
i-a'344
cz  DISPLAY
i-a'347
cz  ENTERDATA
Jmp MAIN
.
OUTPAG  psh bc, call'343000
pop bc
NXTOUT  Call  OUTLINE
b-1, JNZ NXTOUT
ret
.
BUILD   hl= BLDMSG, b='001
Call    OUTPAG
axora, ()=a ASC64
Call    INPUT
i-a'240
r2
as'017
()=a  LINECNT
()=a  DSPCNT
hl= PRMPT1, Call  OUTLINE
.  format
hl='000 043
()=hl  PNTFMT
.
bc='377 001
NXTBL   m='240
hl+1, bc-1, a=b, aorc, JNZ NXTBL
.
NXTBLD    Call  INPLINE
de= LINE, hl=() PNTFMT
Call    MOVLINE
()=hl  PNTFMT, a=() LINECNT
a-1, ()=a  LINECNT
JNZ  NXTBLD
```

```
hl= PRMPT1, Call OUTLINE
.
.  ent buf
hl='000 045
.  format
.
de='000 043
bc='377 001
Call   MOVBLK
Call   psPLYBUF
hl= ENDBMSG, Call OUTLINE
Call   INPCHR,   ret
.
MOVLINE   pshbc , b='040
NXTML   a=(de), i-a'240
JC   BLN
m=a , hl+1, de+1
b-1   JNZ   NXTML
popbc , ret
.
BLN   m='240
hl+1 , b-1 , JNZ BLN
popbc , ret
.
OUTLINE   pshbc , b='040
NXTOL   a=m, i-a'240
JC   BLNKS
Call '372 000
hl+1 , b-1 , JNZ NXTOL
popbc , ret
.
BLNKS   a='240
 Call '372 000
b-1   JNZ   BLNKS
.
ENDOL   popbc , ret
.
INPUT   Call   INPCHR
psh af, Call 372 000
pop af
ret
```

```
IN ØØØ      in '000
 ret
 .
INPCHR      Call  IN ØØØ
 shftl , JNC  INPCHR
 Call  In ØØØ
 psh af
 WAIT      Call  IN ØØØ
 shftl  JC  WAIT
 pop af , ()=a  CHAR
 Call  EOLCHK
 rz
 i-a '214
 rz
 Call  CNVT64
 ret
 .
CNVT64     a=() ASC64
 aora , a=() CHAR , rz
 i-a '240
 JC  SETBL
 i-a' 340
 rc
 a & 337
 ()=a  CHAR, ret
 .
SETBL  a='240
 ret
 .
INPLO      call  343 000
 pop bc
 .
INPLINE    hl= LINE, psh bc  a=1
 a+i '040
 c=a
NXTIL      Call  INPUT
 m=a    Call  EOLCHK
 JZ  INPLO
 i-a '214
 JZ  ENDIL
  hl+1  m='000
```

```
a=l, c-a, JC NXTIL
.
ENDIL   popbc, ret
.
EOLCHK   i-a'202
rz
i-a'212
ret
.
LINE'0000 0000 0000 0000 0000 0000
     0000 0000 0000 0000 0000 0000
     0000 0000 0000 0000 0000 0000
     0000 0000 0000 0000 0000 0000
     000
.
MOVBLK   a=(de), m=a
hl+1, de+1
bc-1, a=b, aorc, JNZ MOVBLK
.
ENTERDATA   axora, a+1
()=a ASC64
.
NXTAB   Call TAB
SETCURS   a='375
m=a   Call DSPLYBUF
NXTIN   Call INPCHR
i-a'214
JZ NXTAB
hl=() LASTAB
i-a'212
CZ BACKUP
hl=() PNTBUF
i-a'202
JZ BKSP
hl+1, call FULLCHK
Jmp SETCURS
.
BKSP   Call BACKUP, Jmp SETCURS
.
```

```
.
TAB   hl=() PNTBUF
NXTT  a=m  l-a '333
JZ  ENDT
Call  FULLCHK  Jmp  NXTT
.
ENDT  hl+1  ()=hl LASTAB
Call  FULLCHK , reT
.
BACKUP  hl-1  ()=hl PNTBUF, reT
.
FULLCHK  ()=hl PNTBUF
.  end fmT
.
de = '377 044
a=e , l-a, rnz
Call  TRNSFR
hl=MAIN , ehl (sp), reT
.
DSPLYBUF  Call  HOME
. ent buf
.
hl='000 045
bc =  DSPCNT
NXTDB  Call  OUTLINE
a=(bc) , a-1  (bc)=a
JNZ  NXTDB
reT
.
HOME  a='377
Call  '372 000
  reT
.
OPTMSG "OPTIONS--B-D-E
'203
BLDMSG " BUILDING_FORMAT
'203
ENDBMSG " END_FORMAT_BUILDING
'203
```

```
PRMPT1  "  SP_TO_CONTINUE                    page 6
' 203

.

CHAR ' 000
LINECNT ' 000
DSPCNT ' 000
ASC 64 ' 000

.

PNTFMT ' 000 000
PNTBUF ' 000 000

.

.

nop!
```

```
MAIN    hl=OPTMSG b=001
Call    OUTPAG
Call    INPCHR
i-a     342 (B)
cz      BUILD
i-a     344 (D)
cz      DISPLAY
i-a     347 (G)
cz      ENTERDATA
Jmp     MAIN
.
OUTPAG  psh BC, call 343000
popbc
NXTOUT  Call OUTLINE
b-1, JNZ NXTOUT
ret
.
BUILD   hL= BLDMSG, b= 001
Call    OUTPAG
axora, ()= A  ASC64
Call    INPCHR
i-a     240
rz
a > 017
()= a   LINECNT
()= a   DSPCNT
hL= FMT, ()=hL  PNTFMT
de = ENDFMT, call BLNKFIL
.
NXTBLD  Call INPLINE
de = LINE, hL=()  PNTFMT
Call    MOVLINE
()=hL  PNTFNT, a=()  LINECNT
a-1, ()=a  LINECNT
JNZ     NXTBLD
.
de= FMT, hL= BUFF
Call    MOVLINE
Call    DSPLYBUF
hL= ENDBMSG, call OUTLINE
Call    INPCHR, ret
.
```

```
MOVLINE  a=(de), i-a 240
rc
m=a, hl+1, de+1, Jmp MOVLINE
.
OUTLINE  pshbc,  b=040
NXTOL    a=m,    i-a 240
Jc  BLNKS
Call  372 000
hl+1, b-1, JNZ  NXTOL
popbc, reT
.
BLNKS    a=240
 Call   372 000
 b-1, JNZ BLNKS
 .
 ENDOL  popbc, reT
 .
 INPUT   Call INPCHR
  psh af, Call  372 000
  pop af
  reT
  .
  IN000    in 000
  reT
  .
  INPCHR   Call  IN000
  shiftL, JNC   INPCHR
  Call   IN000
  psh af
  WAIT   call  IN000
  shiftL   JC  WAIT
  pop af,  ()=a  CHR
   Call  EOLCHK
   rZ
   i-a  214
   rZ
   Call  CNVT64
   reT
   .
```

```
CNVT64    a=() ASC64
aora , a=() CHAR , rz
i-a 240
Jc    SETBL
i-a 340
rc
a D 337
()=a  CHAR, reT
.
SETBL   a=240
reT
.
INPLO     Call 343 000
pop bc
.
INPLINE     hL= LINE, psh BC , a=L
a+i 040
C=a
NXTIL     Call  INPUT
 Call   EOLCHK
 JZ   INPLO
 i-a  214
  JZ   ENDIL
  m=a , hL+1, m=000
  a=l , c-a , Jc  NXTIL
  .
  ENDIL   pop bc , ReT
  .
  EOLCHK    i-a 202
  rz
  i-a 212
  reT
  .
  LINE   '0000000000000000000000000
         '0000000000000000000000000
         0000000000000000000000000
         0000000000000000000000000
         000
  .
```

```
ENTERDATA   axora, a+1
()=a  ASC64
.
NXTAB     Call TAB
SETCURS   a=375
m=a   Call  DSPLYBUF
NXTIN     Call INPCHR
i-a 214
JZ  NXTAB
 hL=()  LASTAB
 i-a  212
  CZ   BACKUP
  hL=()  PNTBUF
   i-a  202
   JZ   BKSP
   hL+1    Call  FULLCHK
   Jmp  SETCURS
   .
   BKSP   Call  BACKUP,  Call  SETCURS
   .
   LASTAB   000
   .
   TAB  hL=()  PNTBUF
   NXTT   a=m ,  i-a  333
   JZ  ENDT
   Call  FULLCHK ,  Jmp  NXTT
   .
   ENDT   hL+1 , ()=hL   LASTAB
   Call   FULLCHK ,  ret
   .
   BACKUP   hL-1,   ()=hL PNTBUF, Ret
   .
   FULLCHR   ()=hL  PNTBUF
   de =  ENDBUF,  a=e ,  1-a ,  rNZ
   Call  TRNSFR
   hL=MAIN   ehL(sp), ret
   .
```

```
DSPLYBUF    Call  HOME
 hL=BUFF,     bc=DSPCNT
NXTDB       Call  OUTLINE
a=(bc) , a-1   (bc)=a
JNZ   NXTDB
ret
.
HOME   a=377
Call 372000
ret
.
BLNKFIL     b=240
FILL    m=B , hL+1
a=e , L-a  , JNZ FILL
a=d   h-a  , JNZ FILL
ret
.
OPTMSG " OPTIONS-
203
BLDMSG " BUILD_FORMAT
203
ENDBMSG " END-FORMAT-BUILDING
203
.
CHAR        000
LINECNT     000
DSPCNT      000
ASC64       000
.
PNTFMT      000 000
PNTBUF      000 000
.
FMT         000000000000000000000000          (24)
            000000 000000 000000000000
ENDFMT      000
.
BUFF        000000000000000000000000
            000000000000 0000 000000000
ENDBUF      000
.
  nop !
```

Fill memory with 377 (FL)

| | | |
|---|---|---|
| 300 | 006 | 315 |
| | | 040 |
| | | 004 |
| | | 052 |
| | 4 | 030 |
| | | 001 |
| | | 353 |
| | | 052 |
| 310 | | 032 |
| | | 001 |
| | | 353 |
| | | 076 |
| | 4 | 377 |
| | | 167 |
| | | 315 |
| | | 204 |
| 320 | | 005 |
| | | 043 |
| | | 303 |
| | | 313 |
| | | 006 |
| | | 0 |
| | | 0 |
| | | 0 |

| | | |
|---|---|---|
| 350 | 007 | 352 |
| | | 007 |
| | | 346 |
| | | 354 |
| | | 247 |
| | | 300 |
| | | 006 |
| | | 361 |
| 360 | | 007 |
| | | 0 |
| | | 0 |
| | | 0 |
| | | 0 |
| | | 0 |
| | | 0 |
| | | 0 |

```
. inp and cnvt binary record
START_INP_BIN    hl= '137 004
INP_BIN  ()=hl' 213 002
. inp line
Call ' 135 002
.
INP_BIN_ENTRY  ()=hl  WRD_PNTR
. --b counts bytes
b = ' 000
NXT_WRD   de= OCTIT_BUFF
psh de ,  c= 003
.
NXT_CHR   a=m,  hl+1 , i-a' 240
JZ  NXT_CHR
(de)=a,  de+1  . To oct buff
i-a' 215
JZ  ERR  . must have 3 octits
c-1  , JNZ  NXT_CHR
.   convert and set next
.
()=hl LAST , pophl
.   ascii to bin
.
 Call   255 001
.
b+1
hl=()  WRD_PNTR , m=a , hl+1
()=hl  WRD_PNTR
.   Test if end line
.
hl=() LAST,  a=m,  i-a' 215
JNZ  NXT_WRD
. --b returned
ret
.
ERR   popde  hl= ERR_MSG
Call  326 001
.
```

```
. delay sec
call 211 001
Jmp START_INP_BIN
.
OCTIT_BUFF ' 000 000 000
WRD-PNTR ' 000 000
LAST ' 000 000
.
ERR_MSG "ERR?
' 203
.
. absolute binary coding
BIN-CODE Call INP_ADDR
.
NXTCODE ()=hl ADDR
.
hl= MSGC , Call 326 001
.
. inp bin
Call START_INP_BIN
.
. Transfer Bytes
de = ' 137 004
hl=() ADDR
Call MOV_BY_CNT
.
. display nxt ADDR
NXT_STORE Call ' 130 003
psh hL , hl= MSGL , call ' 326 001
pop hl
.
. blnk To Continue
call 000 002
i-a ' 240
JZ NXT_CODE
Jmp ' 000 006
.
ADDR ' 000 000
.
```

```
MSGC '' CODE?
' 203
MSGL '' IS_NEXT
' 203
.
INP_ADDR  hl=' 363 001
Call ' 326 001
Call START_INP_BIN
hl=()' 137 004
Call ' 070 006
ret
.
MOV_BY_CNT  a=(de), m=a
hl+1, de+1, b-1  JNZ MOV_BY_CNT
ret
.
BPMSG' 342
BYT '  260 260 260 240 360
PAG'  260 260 260 214
nop!
```

SEARCH



```
SEARCH   hl=MSG, Call 326 001
; input Addr To Search for
Call  045 003
psh hl
pop BC   . Save in BC
. start at page 001
de=' 377 000
.
NEXT_Pair  psh de, pop hl
a=h, l-a' 100
.
. carry rest at page 100
Inc  000 006
.
hl+1  . To next high Byte
psh HL, popde . Save Addr in de
.
. modify instruction
(2)=hl  FETCH_ADDR
.
' 052
FETCH_ADDR ' 000 000
.
. Test if found
Call  COMPARE
JNZ  NEXT_Pair  . not found if NZ
.
. found display hl
psh de, pop hl
Call  130 003
Jmp  NEXT_Pair
.
MSG" ADDRESS_TO_SEARCH_FOR?
' 203
.
COMPARE  a=c, a-l, rnz
a=b, a-h, ret
.
nop!
```

# Search



```
. search for empty (zero) pages
START   hl='137 004 , ()=hl BUFF
hl='000 025 , ()=hl SAVE
hl= ENTRIES , m='000
RESET_P/F   de='000 000
.
TEST_PAGE   hl=() SAVE , l='000
hl+1   . To next page
.
c='000
a=h , i-a'050 , JZ DONE
NXT_BYT   a=m
c-1 , JZ FOUND_ZERO_PAGE
hl+1   ()=hl SAVE
aora , JZ NXT_BYT
.
. page h not empty
a=e   . prev page empty
aora, JNZ PAGE_TO_BUFF
Jmp TEST_PAGE
.
FOUND_ZERO_PAGE   a=e . Page cntr
aora , JNZ CONTIGUOUS
'124 . d=h   empty page to d
.
. count empty pages
CONTIGUOUS   e+1   Jmp TEST_PAGE
.
DONE   hl= ENTRIES   m='007   . Termnt
a=e , aora,   JZ WRITE_BUFF
.
PAGE_TO_BUFF   i-a 202
. Test if Contiguous
JC SINGLE_PAGE
.
a=d , a+e , a-1 , a=e
. Contig d thru e
psh de . and save and set up Buffer
```

```
e='255   Call   D-TO-BUFF
popde
'123 . d=e
.
SINGLE_PAGE    e='240
Call   D-TO-Buff , Jmp  RESET_PIF
.
D-TO-BUFF  '172  . a=d  (page)
hl=() Buff , Call  225  001  . To Ascii
hl+1 , hl+1 , hl+1 , m=e . Seperator
hl+1  ()=hl  BUFF, m='215
hl= ENTRIES , m+1 , a=m
i-a '010 , rNZ
.
WRITE_BUFF   hl='137 004
Call '326 001 , Jmp  000 006
.
ENTRIES '000
BUFF    '  000 000
SAVE    '  000 000
nop!
```

# Search

| | | |
|---|---|---|
| 000 | 030 | 041 |
| | | 055 |
| | | 046 |
| | | 315 |
| | | 326 |
| | | 001 |
| | | 315 |
| | | 045 |
| 010 | | 003 |
| | | 345 |
| | | 301 |
| | | 021 |
| | | 377 |
| | | 000 |
| | | 325 |
| | | 341 |
| 020 | | 174 |
| | | 376 |
| | | 100 |
| | | 322 |
| | | 000 |
| | | 006 |
| | | 043 |
| | | 345 |
| 030 | | 321 |
| | | 042 |
| | | 035 |
| | | 046 |
| | | 052 |
| | | 000 |
| | | 100 |
| | | 315 |
| 040 | | 104 |
| | | 046 |
| | | 302 |
| | | 016 |
| | | 046 |
| | | 325 |
| | | 341 |
| | | 315 |

| | | | |
|---|---|---|---|
| 050 | 036 | 130 | |
| | | 003 | |
| | | 303 | |
| | | 016 | |
| | | 046 | |
| | | 301 | A |
| | | 304 | D |
| | | 304 | D |
| 060 | | 322 | R |
| | | 305 | E |
| | | 323 | S |
| | | 323 | S |
| | | 337 | _ |
| | | 324 | T |
| | | 317 | O |
| | | 337 | _ |
| 070 | | 323 | S |
| | | 305 | E |
| | | 301 | A |
| | | 322 | R |
| | | 303 | C |
| | | 310 | H |
| | | 337 | _ |
| | | 306 | F |
| 100 | | 317 | O |
| | | 322 | R |
| | | 277 | ? |
| | | 203 | |
| | | 171 | |
| | | 225 | |
| | | 300 | |
| | | 170 | |
| 110 | | 224 | |
| | | 311 | |
| | | 000 | |
| 207 | 030 | 045 | |
| 210 | | 003 | |