

PCN 106 - p10  
ANY ONE FOR TENNIS

Listing

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8007          LD SP, (£FA96)
800B          RST 10
800C          DB £83,16,2,2
8010  INIT:   RST10
8011          DB £4C
8012          RST 10
8013          DB £A3,16,3,15
8017          DB £A3,16,4,1
801B          DB £83,16,0,1
801F          LD A, £C2
8021          OUT (2),A
8023          LD A, £81
8025          OUT (2),A
8027          CALL MESGES
802A          XOR A
802B          LD (HIT),A
802E          LD (MISS),A
8031          LD A,100
8033          LD (BAT),A
8036          CALL PATTERN
8039          LD DE, (SATSAD)
803D          CALL VADOUT
8040          LD A, (BAT)
8043          OUT (1),A
8045          LD A,10
8047          CALL OUT
804A          LD A,0
804C          CALL OUT
804F          LD A,15
8051          CALL OUT
8054          CALL BORDER
8057  INIT1:  CALL RANDOM
805A          CALL DISSCR
805D  LOOP:   CALL UPDATE
8060          CALL DELAY
8063  NOGO:   IN A, (2)
8065          BIT 7,A
8067          JR NZ,NOGO
8069          CALL KBOARD
806C  INCX:   LD HL,XINC
806F          LD A, (XCOOR)
8072          ADD A, (HL)
8073          CP 9
8075          JP C,SERVE
8078          CP 242
807A          JP NC,FIXX1
807D          LD (XCOOR),A
8080  INCY:   LD HL,YINC
8083          LD A, (YCOOR)
8086          ADD A, (HL)
8087  TESTY:  CP 173
8089          JP NC,FIXY
808C          CP 10
808E          JP C,FIXY
8091  SAVY:   LD (YCOOR),A
8094  CONT:   CALL TEST
8097          JP LOOP
809A  DELAY:  LD BC, (DELT)
809E  DEL1:  DEC BC
809F          LD A,B
80A0          OR C
80A1          JR NZ,DEL1
80A3          RET
80A4  FIXX:   LD A, (XCOOR)
80A7          LD HL,XINC
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80AA      SUB (HL)
80AB      LD (XCOOR),A
80AE      LD A,(XINC)
80B1      NEG
80B3      LD (XINC),A
80B6      RET
80B7      FIXY:    LD A,(YCOOR)
80BA      LD HL,YINC
80BD      SUB (HL)
80BE      LD (YCOOR),A
80C1      LD A,(YINC)
80C4      NEG
80C6      LD (YINC),A
80C9      JP CONT
80CC      KBOARD:  LD A,£FB
80CE      OUT (5),A
80D0      IN A,(5)
80D2      CP £7F
80D4      JP Z,MOVUP
80D7      LD A,£BF
80D9      OUT (5),A
80DB      IN A,(5)
80DD      CP £7F
80DF      JP Z,MOVDN
80E2      RET
80E3      FIXX1:   CALL FIXX
80E6      JP INCY
80E9      VADIN:  PUSH AF
80EA      LD A,E
80EB      OUT (2),A
80ED      LD A,D
80EE      AND 63
80F0      OUT (2),A
80F2      POP AF
80F3      RET
80F4      SATSAD:  DW 16128
80F6      PATTERN: LD B,64
80F8      LD HL,DATA
80FB      LD DE,14336
80FE      CALL VADOUT
8101      PL1:    LD A,(HL)
8102      OUT (1),A
8104      INC HL
8105      DJNZ PL1
8107      RET
8108      VADOUT:  PUSH AF
8109      LD A,E
810A      OUT (2),A
810C      LD A,D
810D      OR 64
810F      AND 127
8111      OUT (2),A
8113      POP AF
8114      RET
8115      OUT:    OUT (1),A
8117      RET
8118      MOVUP:   LD A,(BAT)
811B      CP 18
811D      RET C
811E      DEC A
811F      DEC A
8120      LD (BAT),A
8123      LD BE,(SATSAD)
8127      CALL VADOUT
812A      OUT (1),A
812C      RET
812D      MOVDN:  LD A,(BAT)
8130      CP 168
8132      RET NC
8133      INC A
8134      INC A

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8135          LD (BAT),A
8138          LD DE,(SATSAD)
813C          CALL VADOUT
813F          OUT (1),A
8141          RET
8142  TEST:    LD A,(XINC)
8145          BIT 7,A
8147          RET Z
8148          LD A,(XCOOR)
814B          CP 22
814D          RET NC
814E          CP 20
8150          RET C
8151          LD A,(YCOOR)
8154          LD B,A
8155          LD A,(BAT)
8158          CP B
8159          JP C,TESTD
815C          SUB B
815D          CP 12
815F          RET NC
8160          JP HITB
8163  TESTD:  LD A,(BAT)
8166          LD B,A
8167          LD A,(YCOOR)
816A          SUB B
816B          CP 17
816D          RET NC
816E  HITB:  CALL INCHIT
8171          CALL FIXX
8174          RET
8175  SERVE:  CALL INCMIS
8178          LD BC,0
817B  SRV1:  DEC BC
817C          LD A,B
8170          OR C
817E          JR NZ,SRV1
8180          JP INIT1
8183  RANDOM: LD A,R
8185          ADD A,10
8187          LD (YCOOR),A
818A          LD A,12
818C          LD (XCOOR),A
818F          LD A,1
8191          LD (XINC),A
8194          LD A,1
8196          LD (YINC),A
8199  UPDATE: LD DE,(SATSAD)
819D          INC DE
819E          INC DE
819F          INC DE
81A0          INC DE
81A1          CALL VADOUT
81A4          LD A,(YCOOR)
81A7          CALL OUT
81AA          LD A,(XCOOR)
81AD          CALL OUT
81B0          LD A,4
81B2          CALL OUT
81B5          LD A,15
81B7          CALL OUT
81BA          LD A,208
81BC          OUT (1),A
81BE          RET
81BF  BORDER: RST 10
81C0          DB £A5,2,0,7,255,7,£A5,2,255,7,255,175,£85,2,255,175,0,175
81D2          RET
81D3  MESGES: LD HL,MES1
81D6          LD DE,£010A
81D9          CALL MESS
81DC          LD HL,MES2

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81DF		LD DE,£0101
81E2		CALL MESS
81E5		LD HL,MES3
81E8		LD DE,£0117
81EB		CALL MESS
81EE		RET
81EF	MESS:	LD (CORD),DE
81F3		RST 10
81F4		DB £83,3
81F6	CORD:	DW 0
81F8	MLOOP:	LD A,(HL)
81F9		CP 0
81FB		RET Z
81FC		LD (CHAR),A
81FF		RST 10
8200		DB £81
8201	CHAR:	DB 0
8202		INC HL
8203		JR MLOOP
8205	INCHIT:	LD A,(HIT)
8208		ADD A,1
820A		DAA
820B		LD (HIT),A
820E		CALL DISSCR
8211		LD HL,(DELT)
8214		LD DE,13
8217		AND A
8218		SBC HL,DE
821A		LD (DELT),HL
821D		LD A,(HIT)
8220		CP £10
8222		JP Z,WON
8225		RET
8226	INCMIS:	LD A,(MISS)
8229		ADD A,1
822B		DAA
822C		LD (MISS),A
822F		CALL DISSCR
8232		LD A,(MISS)
8235		CP £20
8237		JP Z,OVER
823A		RET
823B	DISSCR:	RST 10
823C		DB £83,3,30,1
8240		LD A,(MISS)
8243		CALL CONV
8246		LD A,B
8247		CALL DIS
824A		LD A,C
824B		CALL DIS
824E		RST 10
824F		DB £83,3,6,1
8253		LD A,(HIT)
8256		CALL CONV
8259		LD A,B
825A		CALL DIS
825D		LD A,C
825E		CALL DIS
8261		RET
8262	CONV:	LD D,A
8263		AND £F0
8265		SRL A
8267		SRL A
8269		SRL A
826B		SRL A
826D		AND A
826E		ADC A,48
8270		LD B,A
8271		LD A,D
8272		AND £0F
8274		AND A

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8275          ADC A,48
8277          LD C,A
8278          RET
8279  DIS:     LD (CHAR),A
827C          RST 10
827D          DB £81
827E  CHAR1:  DB 0
827F          RET
8280  WON:     LD HL,MES9
8283          LD DE,£0808
8286          CALL MESS
8289          CALL MES5TO8
828C          RET
828D  OVER:    LD HL,MES4
8290          LD DE,£0809
8293          VALL MESS
8296  MES5TO8: LD HL,MES5
8299          LD DE,£0A0A
829C          CALL MESS
829F          LD HL,MES6
82A2          LD DE,£0B0C
82A5          CALL MESS
82A8          LD HL,MES7
82AB          LD DE,£0D09
82AE          CALL MESS
82B1          LD HL,MES8
82B4          LD DE,£0E0C
82B7          CALL MESS
82BA  KLOOP:  CALL £0079
82BD          CP 0
82BF          JR Z,KLOOP
82C1          CP 13
82C3          JP Z,INIT
82C6          CP 3
82C8          JP Z,END
82CB          JR KLOOP
82CD          RET
82CE  END:     LD SP,£FD46
82D1          RET
82D2  DATA:  0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,0,0,0,0,3,4,
             8,8,8,8,4,3,0,0,0,0,0,0,0,0,0,0,0,0,0,0,192,32,16,16,16,16,32,192,0,0,0,0
8312  DELT:    DW 1500
8314  XCOOR:   DB 6
8315  YCOOR:   DB 0
8316  XINC:    DB 1
8317  YINC:    DB 1
8318  BAT:     DB 0
8319  HIT:     DB 0
831A  MISS:   DB 0
831B  MES1:    DB "T E N N I S"
8326          DB 0
8327  MES2:    DB "HITS",0
832D  MES3:    DB "MISSES",0
8335  MES4:    DB "***GAME OVER***",0
8346  MES5:    DB "PRESS (RET) TO",0
8355  MES6:    DB "PLAY AGAIN",0
8360  MES7:    DB "PRESS (BREAK) TO"
8370          DB 0
8371  MES8:    DB "TERMINATE",0
837B  MES9:    DB "WELL DONE, YOU WIN",0
838E          RET

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