

## (FINAL DECODE)

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OAC4  8F  GLO  RF ;D=RF.0
      C5  AD  PLO  RD ;RD.0=D  (RD points to first possible pair)
      C6  2D  DEC  RD ;RD=RD-1 (RD points to hand eval slot)
      C7  93  GHI  R3 ;D=PC.1  (get this page value)
      C8  BF  PHI  RF ;RF.1=D  (put in RF.1)
      C9  F8  LDI
      CA  EC
      CB  AF  PLO  RF ;RF.0=EC (RF=top of look-up table @ Oaec)
      CC  9E  GHI  RE ;D=RE.1  (get embryo hand value)
      CD  52  STR  R2 ;Push for comparing with table entries
      CE  38  SKP  ;Skip next - first time through only
      CF  1F  INC  RF ;RF=RF+1 - next table entry

OADO  4F  LDA  RF ;D=M(R(F)); RF=RF+1 (points to byte after key)
      D1  F3  XOR  ;Compare RE.1:M(R(F))
      D2  3A  BNZ  ;If ≠, branch to OACF
      D3  CF
      D4  0F  LDN  RF ;D=M(R(F))  (get matched table entry)
      D5  5D  STR  RD ;M(R(D))=D  (store as hand evaluation)
      D6  0D  LDN  RD ;D=M(R(D))  (get hand evaluation)
      D7  FB  XRI  ;Compare with 04  (straight?)
      D8  04
      D9  32  BZ   ;If =, branch to OAE5 -- cancel recommended
      DA  E5                                     throw-outs
      DB  0D  LDN  RD ;D=M(R(D))
      DC  FB  XRI  ;Compare with 05  (flush?)
      DD  05
      DE  32  BZ   ;If =, branch to OAE5
      DF  E5

OAE0  0D  LDN  RD ;D=M(R(D))
      E1  FB  XRI  ;Compare with 08  (straight flush?)
      E2  08
      E3  3A  BNZ  ;If ≠, branch to OAEA
      E4  EA
      E5  1D  INC  RD ;RD=RD+2  (point to TA area)
      E6  1D  INC  RD
      E7  F8  LDI
      E8  FF
      E9  5D  STR  RD ;M(R(D))=FF Stop byte (do not take any cards)
      EA  12  INC  R2 ;Reset stack pointer
      EB  D4  SEP  R4 ;Return to Chip-8 program

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