There are 3 free lists.

     1. large blocks
     2. small blocks
     3. entries

A) Form of large block list

    Pointer to a word in a small block
      i. each successive word in that except the last small
         block points to a free large block.
     ii. the last word in that small block points to another
         small block containing a continuation of the last
    iii. list stop on a word =-1.

B) Form of small block list
    Same as large block list, except each word points to a
    small block.

C) Form of entire list

    Pointer to a word in a small block. (i.e. 1st free entry)
    Each free entry points to next, until -1.

D) Initial State of system will be to have all 3 lists on
    empty, and to keep them that way.

Addressing structure

    Large blocks $0,1,\ldots,ML$
    Small blocks, within large blocks $0,1,\ldots,MS$
    Words within small blocks $0,1,\ldots,MW$

Need a function (C addresses $(B,S,W) = (B*MS+S)*MW+W$
Need 3 functions B addresses $(I) = [I/(MS*MW)]$
                S addresses $(I) = [(I- B \text{ addresses}(I)A(MS*MW))/MW]$
                W addresses $(I)-(B \text{ addresses}(I)*MS+S \text{ addresses}(I)*MW$

Entry site   site of entries in main table

Entrance   generates large block addresses for permanent area.
           gives -1 when all done