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INPUT:
    code[] - An array of disassembly output
OUTPUT:
    IS - Initial set of embedded data
    AS - The set of seed addresses for embedded data
    RS - The set of reference sites to embedded data
 1: procedure InitialSetCollection
       IS = \{\}
 2:
       AS = \{\}
 3:
       RS = \{\}
 4:
       for each (ldr-literal\ addr) \in code[] at curr\ do
 5:
           size = MemLoadSize(ldr)
 6.
           IS = IS \cup \{addr, addr+1, ..., addr+size-1\}
 7:
           RS = RS \cup \{curr\}
 8:
       end for
 9:
       for each (adr \ xn, \ addr) \in code[] at curr do
10:
           escaped, depInsts = ForwardSlicing (xn)
11:
           unbounded = False
12:
           for each inst \in depInsts do
13:
               if inst is MemoryLoad then
14:
                  RS = RS \cup \{curr\}
15:
                  addr\_expr = MemLoadAddrExpr(inst)
16:
                  if IsBounded(addr expr) then
17:
                      IS = IS \cup \{AddrRange(addr\_expr)\}\
18:
                  else
19:
                      unbounded = True
20:
                  end if
21:
               end if
22:
           end for
23:
           if escaped or unbounded then
24:
               AS = AS \cup \{addr\}
25:
           end if
26:
       end for
27:
28: end procedure
```