```
int Mem_ Free ( void * ptr ) {
      check ptr is valid if is not
            return -1
      mem-rode * temp Head + all Head
      while (temp Head ! = NULL) [
          find the location of ptr
          deatach ptr
         update free space
          update temphead's next
         return O
     otherwise return -1
     Men_ Dump () {
       iterate while head!= null
      print head's sine
       head - head next
```

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```
Node Struct &
   int site
    Node Struct *next
I mem - node ;
mem - node + all Head
int freetlem
    Mem-ini+ (int size Of Region) {
int
     Pg = get Page Size ()
     if size of Region is not exactly times the pg
          size Of Region = size Of Region + Pg - (5:40 Of Region % Pg)
      mem-node p+r & get space from os
     if per foils
          return -1
     all Head - ptr
     ptr. size + size Of Region - size of (mem-node)
     ptr. next - NULL
     freemen & site of region - site Of (mem_node)
4
void Mem_Alloc(int size ){
   mem-node * temphed a ollHead
   mem-node + +mp = NULL
   check the size
   while ( ! (temp Head = = MULL ) )
         it size = head size // good place for allocation
             get next of head as temp
             attach temp to head next next
         else
             tempherd - tempherd next
1/14 can not return a pointer
    printf ("SIDE ERROR")
    return HULL
```

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