long search(long list[], long i, long j, long q) {  
if (i > j) {  
return -1;  
}  
long mid = (i+j)/2;  
if (list[mid] = q) {  
return mid; 
$$\leq$$
  
}  
if (list[mid] > q) {  
return search(list, i, mid-1, q);  
}  
The idea is to copy parts to the loop, replacing  
Recurd: a.  
  
Fundament is that  
 $G$  return (-1)  $\leq$  i > i  
 $Mere q$  is  
Suppored to be.