| Even | Write a C program to simulate the following disk scheduling algorithms  SCAN |
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| Code | #include<stdio.h>  #include<conio.h>  int main() {  int input[8] = { 176, 79, 34, 60, 92, 11, 41, 114 };  int head = 50;    int a[9] = { 176, 79, 34, 60, 92, 11, 41, 114, head};  int temp;  int i, j;    printf("Before Sorting ");    for(i=0; i<9; i++)  {  printf("%d ",a[i]);  }    for(i=0; i<9; i++)  {  for(j=i+1; j<9; j++) { if(a[i]>a[j])  {  temp = a[i];  a[i] = a[j];  a[j] = temp;  }  }  }  printf("\nAfter Sorting ");  for(i=0; i<9; i++)  {  printf("%d ",a[i]);  }  printf("\n");  int l=0;  for (int i=0;i<9;i++){  if (a[i]==head){  l=i;  printf("\nl = %d",l);  head = a[l];  printf("\nhead= %d",head);  break;  }  }    int seek = 0;  int direction = 0;  printf("\nl = %d", l);  if(direction == 0){  for(int k=l; k>=0; k--){  printf("\nk = %d",k);  if(k==0){  seek = seek + (head + head);  break;  head=0;  printf("\n%d",head);  }  seek = seek + (head - a[k-1]);  printf("\nseek = %d",seek);  head = a[k-1];  printf("\nhead = %d\n\n",head);  }  direction=1;  }  printf("\n");  if(direction == 1){  for(int m=0; m<9; m++){  printf("\nseek = %d",seek);  printf("\nhead = %d",head);  seek = seek + (a[m+1]-head);  printf("\nseek = %d",seek);    head = a[m+1];  printf("\nhead = %d\n\n",head);  }  direction=0;  }  printf("\nseek = %d ",seek);    } |