Scan Algorithm :

#include<stdio.h> int main()

{

int i, j, sum = 0, n; int d[20]; int disk; int temp, max; int dloc; printf("enter number of location\t"); scanf("%d", & n); printf("enter position of head\t"); scanf("%d", & disk);

printf("enter elements of disk queue\n"); for (i = 0; i < n; i++)

{

scanf("%d", & d[i]);

}

d[n] = disk; n = n + 1; for (i = 0; i < n; i++)

{ for (j = i; j < n; j++) { if (d[i] > d[j]) { temp = d[i]; d[i] = d[j]; d[j] = temp;

}

}

}

max = d[n];

for (i = 0; i < n; i++)

{

if (disk == d[i]) {

dloc = i;

break;

}

}

for (i = dloc; i >= 0; i--)

{

printf("%d -->", d[i]);

}

printf("0 -->");

for (i = dloc + 1; i < n; i++)

{

printf("%d-->", d[i]);

}

sum = disk + max;

printf("\nmovement of total cylinders %d", sum);

return 0;

}