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SUBJECT - OPERATING SYSTEM
COURSE - BSC-IT
SECTION - B

CAMPUS - DEHRADOON
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27/00/21.

Q.2.

```c
# include < conio.h>
# 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++)
        {
```

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```c
    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("\n movement of total number cylinders %d", sum);
    getch();

    return 0;

}
```

File   Edit   View   Search   Project   Build   Debug   Fortran   wxSmith   Tools   Tools+   Plugins   DoxyBlocks   Settings   Help

`<global>`   main() : int

Management

Projects   Files
Workspace

```
C:\Users\hp\Documents\Untitled2.exe

enter number of location       7
enter position of head  12
enter elements of disk queue
12
26
24
4
42
8
50
12 -->8 -->4 -->0 -->12-->24-->26-->42-->50-->
movement of total cylinders 4200252
Process returned 0 (0x0)   execution time : 76.011 s
Press any key to continue.
```

Cscope   ✕   Debugger   ✕   Doxyf

=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

C:\Users\hp\Documents\Untitled2.c   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 10, Col 1, Pos 121   Insert   Read/Write   default