Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

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Name: Disha Verma Univ.Roll No. 2002115 Student ID 20052122
Date: 27/8/21 Course: B.Sc. IT Branch: Dehradun Sem.: 2 Section: B
Subject Name: O.S Practical Subject Code: PBI202 Page No. 1

(1)

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
int frag[max], b[max], f[max], i, j, nb, nf, temp, highest=0;
Static int bf[max], ff[max];
printf("\n Enter the number of blocks :");
scanf("%d", &nb);
printf("Enter the number of files :");
scanf("%d", &nf);
printf("\n Enter the size of the blocks :-\n");
for(i=1; i<=nb; i++)
{
printf("Block %d :", i);
scanf("%d", &b[i]);
}
printf("Enter the size of the files :-\n");
for(i=1; i<nf ; i++)
{
printf("file %d :", i);
scanf("%d", &ff[i]);
}
for(i=1; i<=nf; i++)
{
for(j=1; j<=nb; j++)
```

Signature of Student
Disha Verma
27/8/21

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Date: 27/8/21 Course: BSc. IT Branch: Dehradun Sem.: 2 Section: Pri
Subject Name: O.S. Practical Subject Code: PB1202 Page No. 2

```
{
if (bf[j]!=1)
{
temp = b[j] - f[i];
 if [temp >= 0)
  if (highest < temp)
  {
   ff [i] = j;
   highest = temp ;
  }
 }
}
frag [i] = highest;
bf[ff[i]] = 1;
 highest = 0;
}
printf ("\n File no\t File_size \t Block_no \t Block_size \t
     Fragment ");
for (i=1; i<=nf ; i++)
printf("\n%d \t \t%d \t \t%d \t \t%d \t \t %d", i, f[i],
     ff[i], b[ff[i]], frag [i]);
 getch();
}
```

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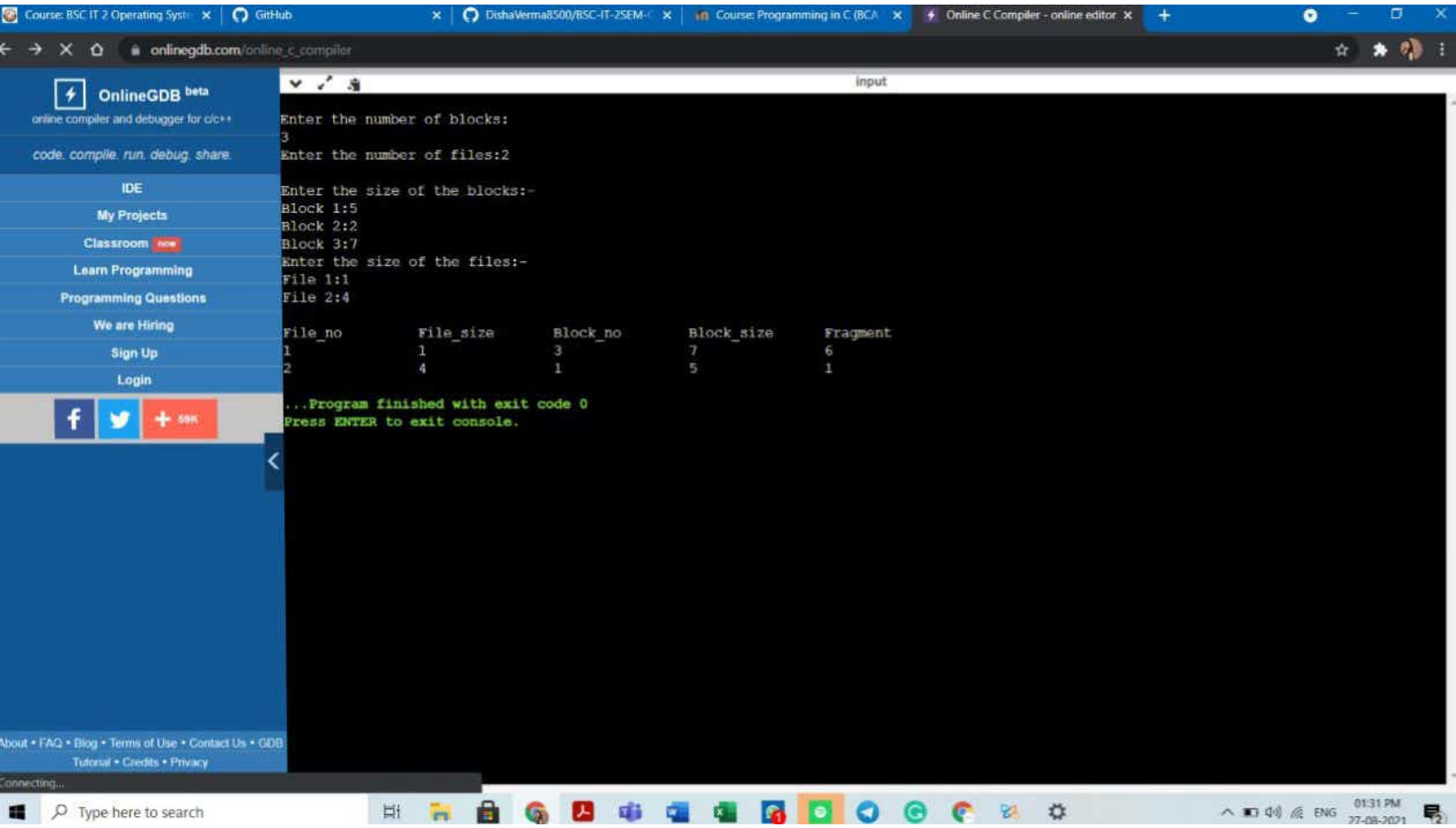
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input
Enter the number of blocks:
3
Enter the number of files:2
Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 3:7
Enter the size of the files:-
File 1:1
File 2:4
File_no File_size Block_no Block_size Fragment
1 1 3 7 6
2 4 1 5 1
...Program finished with exit code 0
Press ENTER to exit console.
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(2)

```
#include <stdio.h>
#include <stdlib.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])
{
```

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```
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 cylinders %d", sum);
getch();
return 0; }
```

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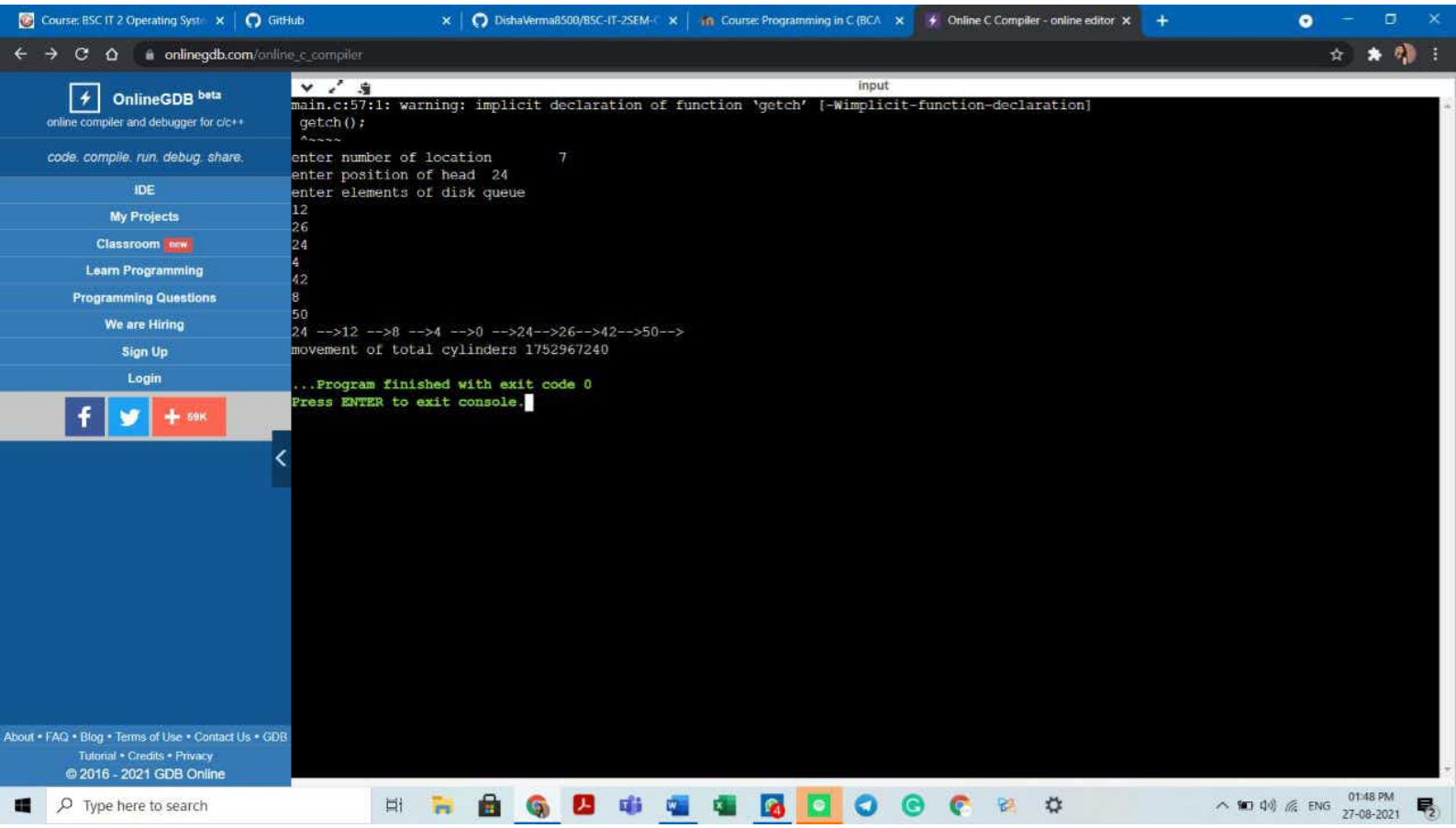
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online compiler and debugger for c/c++
code. compile. run. debug. share.
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input
main.c:57:1: warning: implicit declaration of function 'getch' [-Wimplicit-function-declaration]
getch();
^~~~~
enter number of location 7
enter position of head 24
enter elements of disk queue
12
26
24
4
42
8
50
24 -->12 -->8 -->4 -->0 -->24-->26-->42-->50-->
movement of total cylinders 1752967240
...Program finished with exit code 0
Press ENTER to exit console.
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