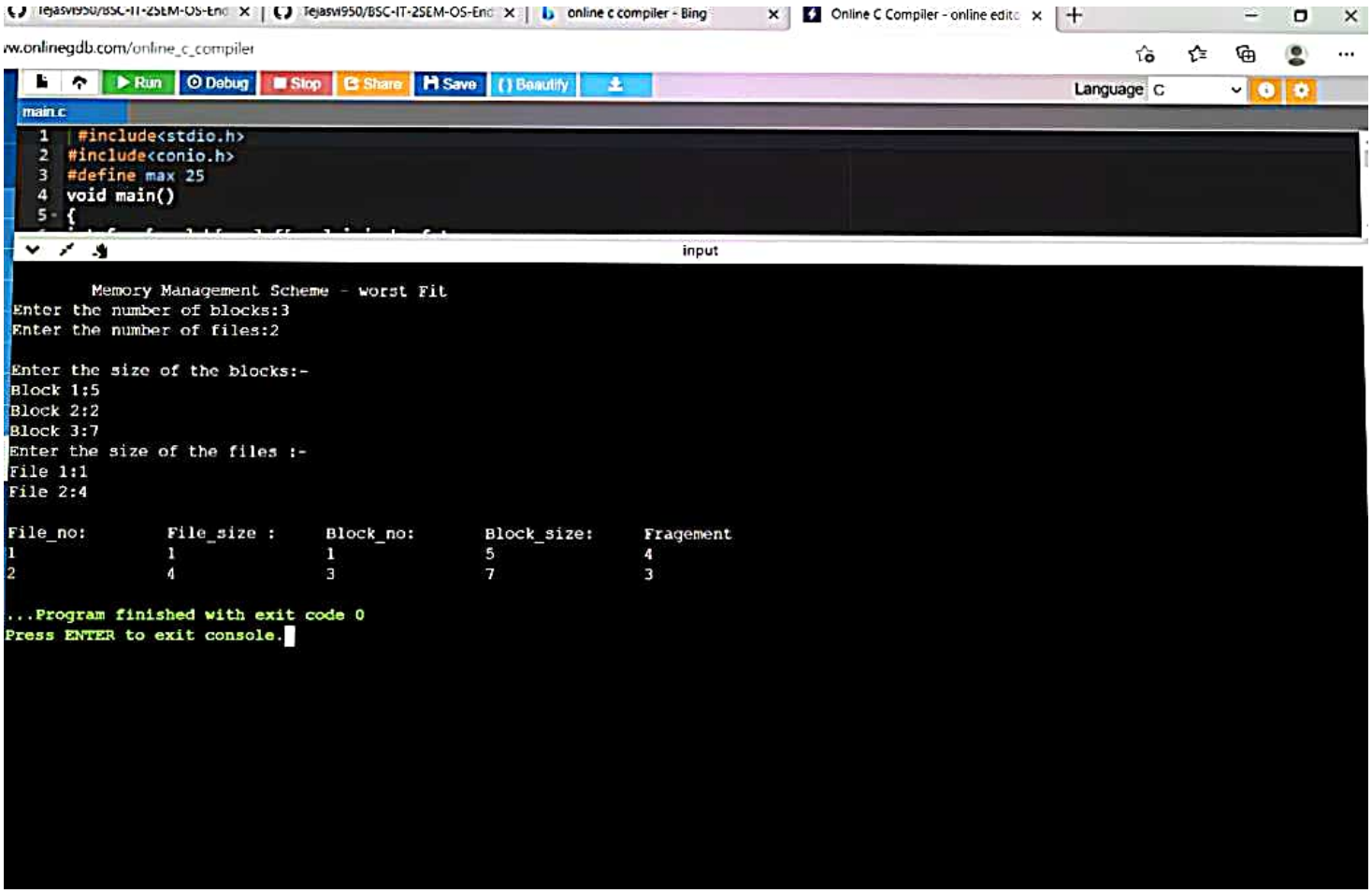
Name:- Tejasvi Kukreti
Student I'd:- 20052108
Subject Code:- PBI-202
Subject Name:- Operating System Practical Exam

Signature:-
Tejasvi

Q1>
```
# include <stdio.h>
# include <conio.h>
# define max 25
  void main ()
{
int frag[max], b[max], f[max], i, j, nb, nf, temp;
static int bf[max], ff[max];
Printf("\n\tmemory Management Scheme - worst fit");
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", &f[i]);
}
for (i=1; i<=nf; i++)
{
```

Tejasvi

```
for (j=1; j<=nb; j++)
{
if (bf[j]!=1)
{
temp=b[j]-f[i];
if (temp>=0)
{
ff[i]=j;
break;
}
}
}
frag[i]=temp;
bf[ff[i]]=1;
}
printf("\n fileno:\t file_size:\tBlock_no:
\tblock_size:\tfragement");
for (i=1;i<=nf;i++)
Print f ("\n%d\t\t%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],
b[ff[i]],frag[i];
getch();
}
```


Tejaswi950/BSC-IT-2SEM-OS-End
Tejaswi950/BSC-IT-2SEM-OS-End
online c compiler - Bing
Online C Compiler - online edito
w.onlinegdb.com/online_c_compiler
Run
Debug
Stop
Share
Save
{} Beautify
Language C
main.c
1 #include<stdio.h>
2 #include<conio.h>
3 #define max 25
4 void main()
5 {
input
Memory Management Scheme - worst Fit
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: Fragement
1 1 1 5 4
2 4 3 7 3
...Program finished with exit code 0
Press ENTER to exit console.

Name :- Tejasvi Kukreti
Student I'd:- 20052108
Subject Code:- PBI-202
Subject Name:- Operating System Practical Exam

Signature
Tejasvi

Q2

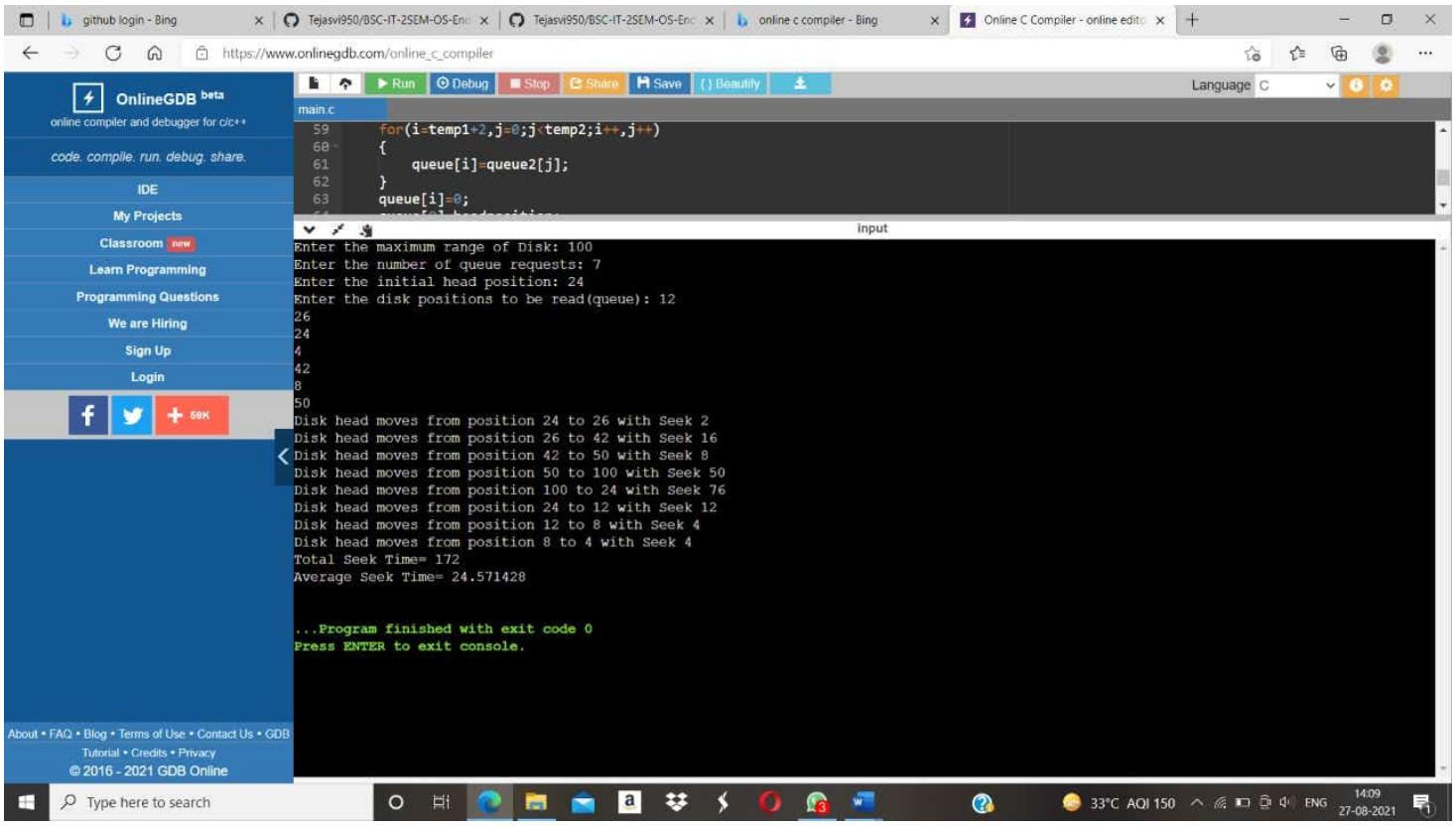
```
#include<stdio.h>
int absolute value (int);
void main()
{
int queue[25], n, headposition, i, j, k, seek = 0, maxrange,
difference, temp, queue1[20], queue2[20], temp1= 0, temp2=0;
float average seek time;
Printf("Enter the maximum range of Disk:");
Scanf("%d", &maxrange);
Printf("Enter the number of queue requests:");
Scanf("%d", &n);
Printf("Enter the initial head position:");
Scanf("%d", &headposition);
Printf("Enter the disk positions to be read(queue):");
for(i=1; i<=n, i++)
{
 Scanf("%d", &temp);
 if(temp > headposition)
 {
  queue1[temp1]= temp;
   temp1++;
 }
 else
 {
  queue2[temp2]= temp;
   temp2++;
 }
}
```

```
for (i=0; i<temp1-1; i++)
{
for (j=i+1; j<temp1; j++)
{
if (queue1[i] > queue1[j])
{
temp = queue1[i];
queue1[i] = queue1[j];
queue1[j] = temp;
}
}
}
for (i=0; i<temp2-1; i++)
{
for (j=i+1; j<temp2; j++)
{
if (queue2[i] < queue2[j])
{
temp = queue2[i];
queue2[i] = queue2[j];
queue2[j] = temp;
}
}
}
for (i=1, j=0; j<temp1; i++, j++)
{
queue[i] = Maxrange;
for (i=temp1+2, j=0; j<temp2; i++, j++)
{
queue[i] = queue2[j];
}
queue[i] = 0;
queue[0] = headposition;
for (j=0; j<=n; j++)
{
```

Tejaswi

Tejasvi

```
difference = absolute value (queue[j+1] - queue[j]);
    Seek = Seek + difference;
 Print f("Disk head moves from position %d to %d with Seek %d\n",
 queue[j], queue[j+1], difference);
}
average Seek time = Seek/(float)n;
 Print f("Total Seek time = %d\n", Seek);
 Print f("Average Seek time = %f\n",
 average Seek Time);
 }
int absolute value (int x)
{
 if(x>0)
 {
  return x;
 }
 else
 {
  return x*-1;
 }
}
```


github login - Bing
Tejasvi950/BSC-IT-2SEM-OS-Enc
Tejasvi950/BSC-IT-2SEM-OS-Enc
online c compiler - Bing
Online C Compiler - online edito
https://www.onlinegdb.com/online_c_compiler
OnlineGDB beta
online compiler and debugger for c/c++
code. compile. run. debug. share.
IDE
My Projects
Classroom new
Learn Programming
Programming Questions
We are Hiring
Sign Up
Login
69K
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
59 for(i=temp1+2,j=0;j<temp2;i++,j++)
60 {
61 queue[i]=queue2[j];
62 }
63 queue[i]=0;
input
Enter the maximum range of Disk: 100
Enter the number of queue requests: 7
Enter the initial head position: 24
Enter the disk positions to be read(queue): 12
26
24
4
42
8
50
Disk head moves from position 24 to 26 with Seek 2
Disk head moves from position 26 to 42 with Seek 16
Disk head moves from position 42 to 50 with Seek 8
Disk head moves from position 50 to 100 with Seek 50
Disk head moves from position 100 to 24 with Seek 76
Disk head moves from position 24 to 12 with Seek 12
Disk head moves from position 12 to 8 with Seek 4
Disk head moves from position 8 to 4 with Seek 4
Total Seek Time= 172
Average Seek Time= 24.571428
...Program finished with exit code 0
Press ENTER to exit console.
About • FAQ • Blog • Terms of Use • Contact Us • GDB Tutorial • Credits • Privacy
© 2016 - 2021 GDB Online
Type here to search
33°C AQI 150
ENG
14:09
27-08-2021