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sequential file allocation

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main.c

```c
#include<stdio.h>
int main()
{
    char name[10][30];
    int start[10],length[10],num;
    printf("Enter the number of files to be allocated\n");
    scanf("%d",&num);
    int count=0,k,j;
    for(int i=0;i<num;i++)
    {
        printf("Enter the name of the file %d\n",i+1);
        scanf("%s",&name[i][0]);
        printf("Enter the start block of the file %d\n",i+1);
        scanf("%d",&start[i]);
        printf("Enter the length of the file %d\n",i+1);
        scanf("%d",&length[i]);

        for(j=0,k=1;j<num && k<num;j++,k++)
        {
            if(start[j+1]<=start[j] || start[j+1]>=length[j])
            {

            }
            else
            {
                count++;
            }
        }
        if(count==1)
        {
            printf("%s cannot be allocated disk space\n",name[i]);
        }
    }
    printf("File Allocation Table\n");
```

input

Press ENTER to exit console.

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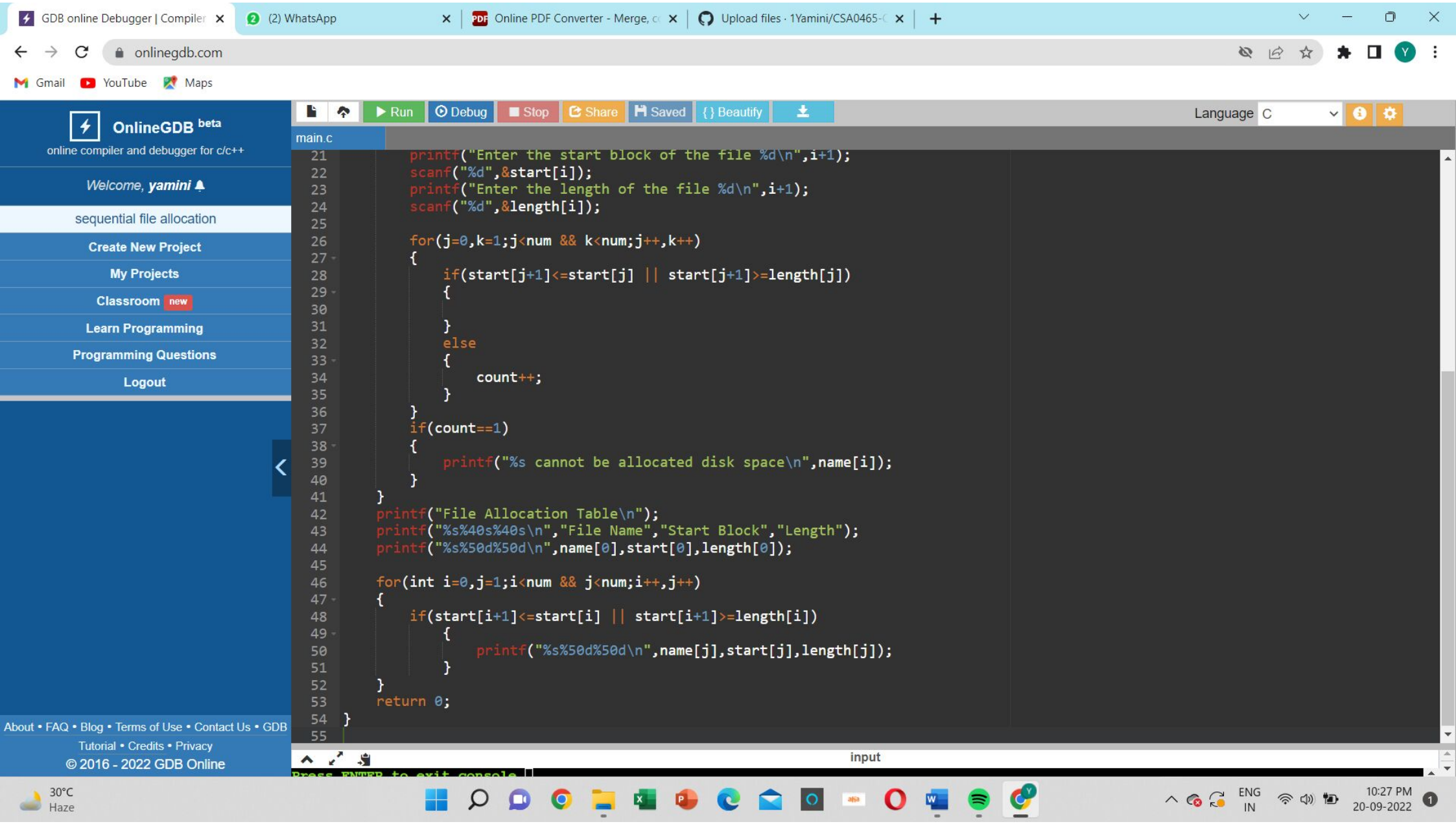
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Language C
main.c
printf("Enter the start block of the file %d\n",i+1);
scanf("%d",&start[i]);
printf("Enter the length of the file %d\n",i+1);
scanf("%d",&length[i]);
for(j=0,k=1;j<num && k<num;j++,k++)
if(start[j+1]<=start[j] || start[j+1]>=length[j])
else
count++;
if(count==1)
printf("%s cannot be allocated disk space\n",name[i]);
printf("File Allocation Table\n");
printf("%s%40s%40s\n","File Name","Start Block","Length");
printf("%s%50d%50d\n",name[0],start[0],length[0]);
for(int i=0,j=1;i<num && j<num;i++,j++)
if(start[i+1]<=start[i] || start[i+1]>=length[i])
printf("%s%50d%50d\n",name[j],start[j],length[j]);
return 0;
}
input
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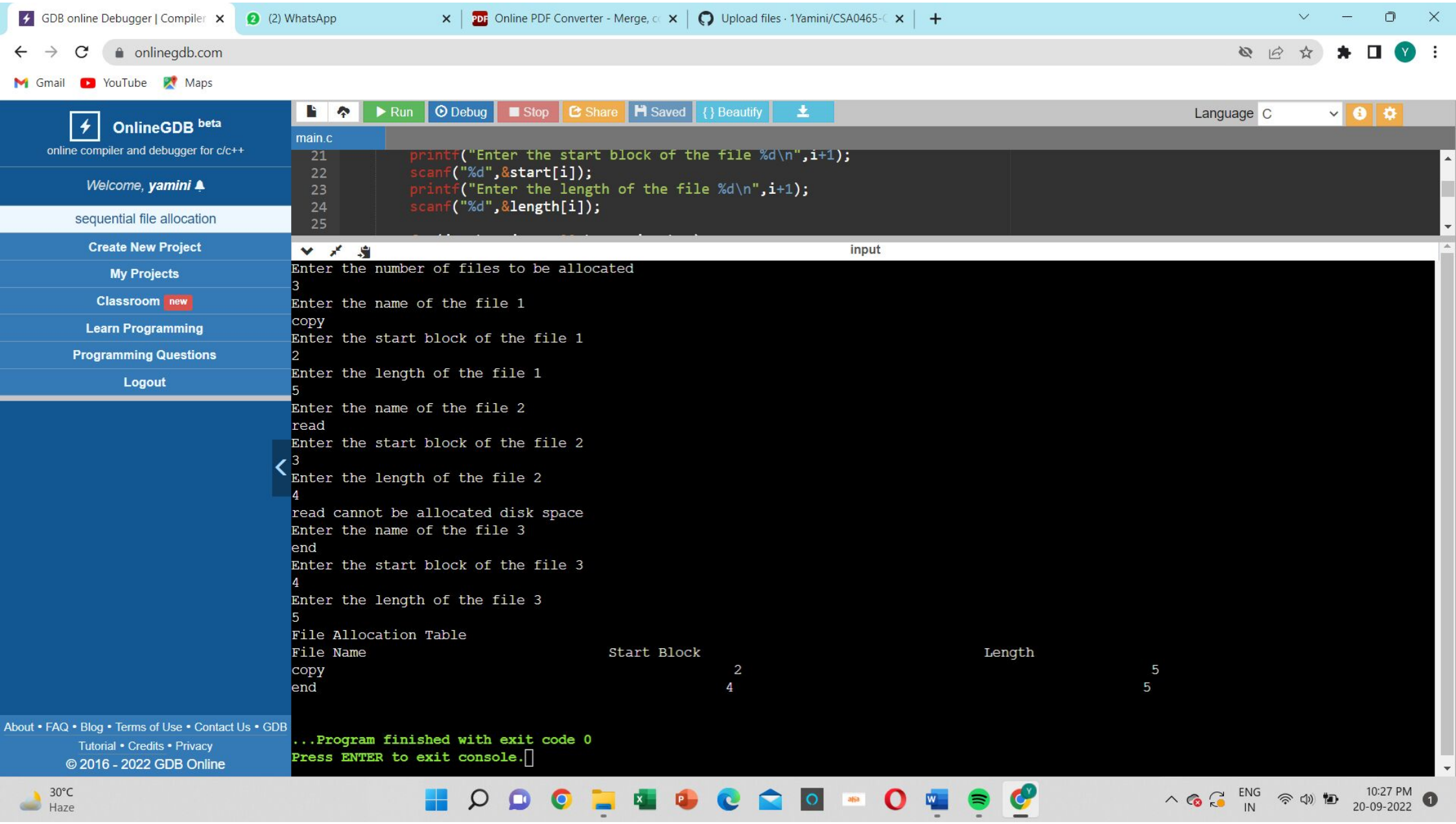
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printf("Enter the start block of the file %d\n",i+1);
scanf("%d",&start[i]);
printf("Enter the length of the file %d\n",i+1);
scanf("%d",&length[i]);
input
Enter the number of files to be allocated
3
Enter the name of the file 1
copy
Enter the start block of the file 1
2
Enter the length of the file 1
5
Enter the name of the file 2
read
Enter the start block of the file 2
3
Enter the length of the file 2
4
read cannot be allocated disk space
Enter the name of the file 3
end
Enter the start block of the file 3
4
Enter the length of the file 3
5
File Allocation Table
File Name Start Block Length
copy 2 5
end 4 5
...Program finished with exit code 0
Press ENTER to exit console.
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