

## Question 1

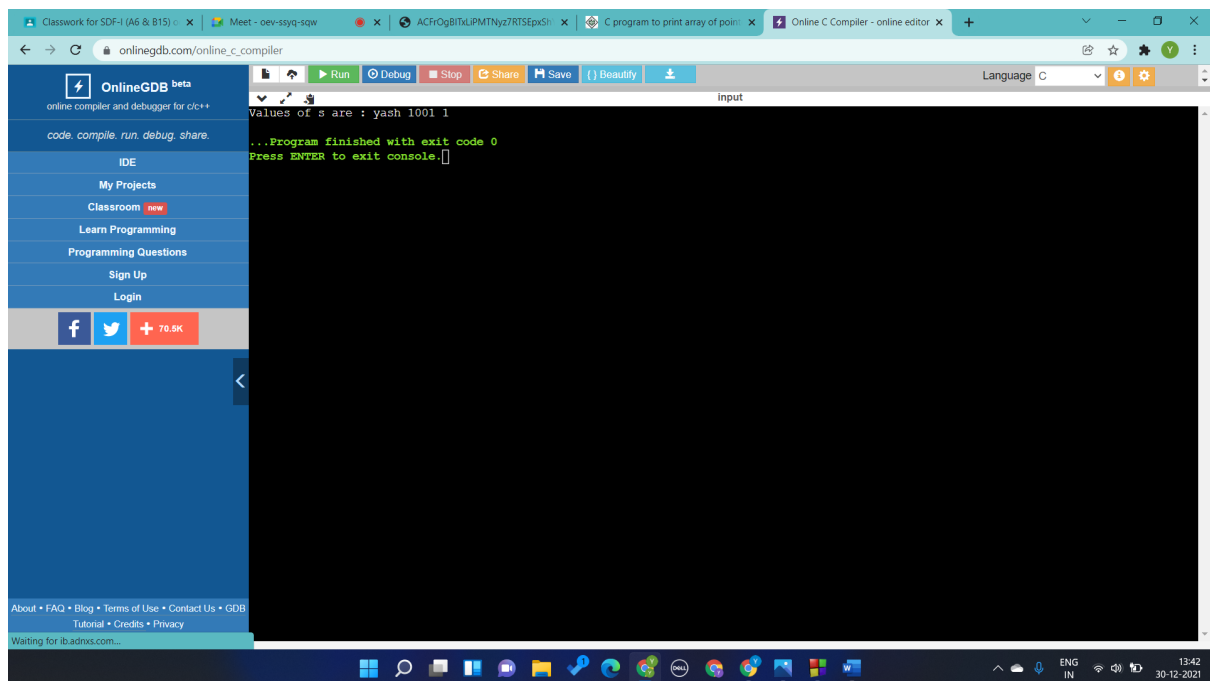
```
#include <stdio.h>

struct Student {
    char name[20];
    unsigned int number;
    unsigned int rank;
}s={"yash",101,1},*s1;

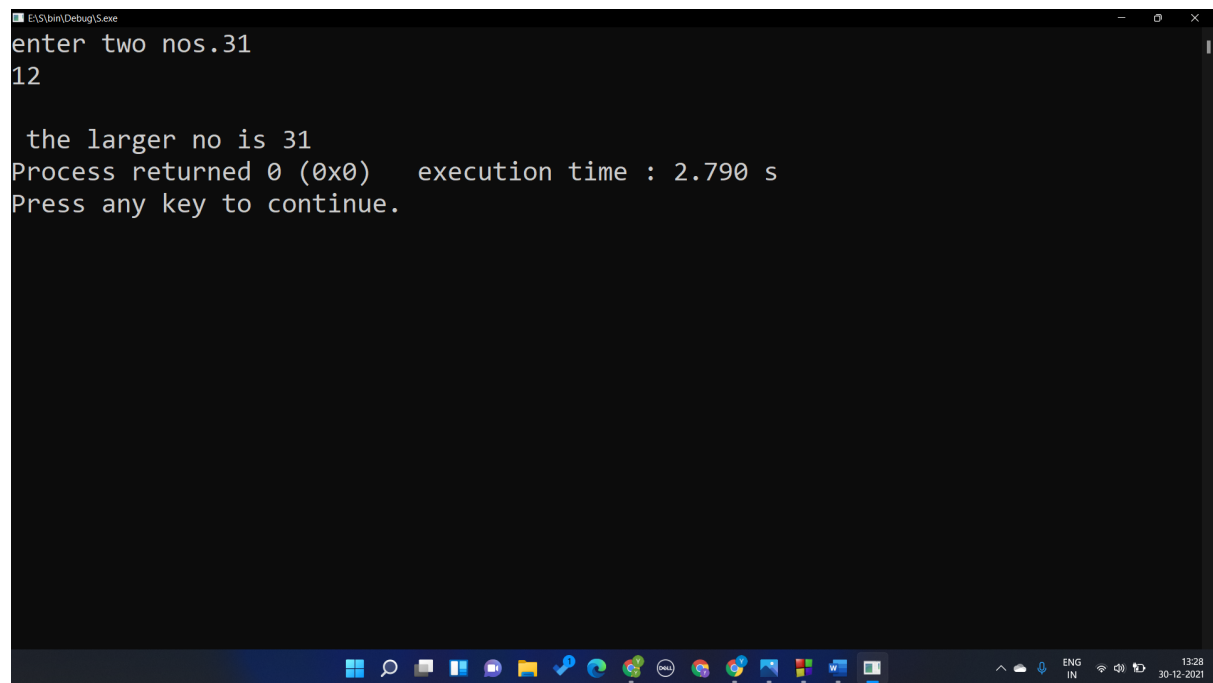
int main()
{
    s1 = &s;

    printf("Values of s are : %s %d %d",s1->name, s1->number, s1->rank);

}
```



## Question 2



```
E:\S\bin\Debug\1.exe
enter two nos.31
12

the larger no is 31
Process returned 0 (0x0)   execution time : 2.790 s
Press any key to continue.
```

```
#include <math.h>

#include<stdlib.h>

#include <string.h>

#include <stdio.h>

int *shor(int* a,int*b)

{

    if(*a>*b) return a;

    return b;

}

int main()

{

    int a,b,*c ;

    printf("enter two nos.");

    scanf("%d %d",&a,&b);

    c=shor(&a,&b);

    printf("\n the larger no is %d",*c);

}
```

Question 3

```
E:\S\bin\Debug\S.exe
enter array4
32
41
2
40

the sorted array is 2 4 32 40 41
Process returned 0 (0x0)   execution time : 16.337 s
Press any key to continue.
```

```
#include <math.h>

#include<stdlib.h>

#include <string.h>

#include <stdio.h>

void shor(int* ptr)
{
    int i,j,l;

    for (i = 0; i < 5; i++) {
        for (j = i + 1; j < 5; j++) {
            if (*(ptr + j) < *(ptr + i)) {
                l = *(ptr + i);
                *(ptr + i) = *(ptr + j);
                *(ptr + j) = l;
            }
        }
    }

    printf("\nthe sorted array is ");

    for (i = 0; i < 5; i++)
        printf("%d ", *(ptr + i));
```

```

}
int main()
{
    int arr[5],i ;
    printf("enter array");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr[i]);
    }
    shor(arr);
}

```

#### Question 4

```

#include <math.h>
#include<stdlib.h>
#include <string.h>
#include <stdio.h>

int main()
{
    char *a[3]={"yash","rahul","dhruv"};
    int i;

    for(i=0;i<3;i++)
    {
        printf("\n%s",*(a+i));
    }

}

```

```
E:\S\bin\Debug\S.exe
yash
rahul
dhruv
Process returned 0 (0x0)   execution time : 0.046 s
Press any key to continue.
```

#### Question 5

```
E:\S\bin\Debug\S.exe
enter the 2 no:12
13

before swapping 12,13
after swapping 13,12
Process returned 0 (0x0)   execution time : 4.264 s
Press any key to continue.
```

```
#include<stdlib.h>
```

```
#include <string.h>
```

```
#include <stdio.h>
```

```
void swap(int*a,int *b)
```

```
{
```

```
    int t;
```

```
    t=*a;
```

```
    *a=*b;
```

```
    *b=t;
```

```
}
```

```
int main()
```

```
{
```

```
    int a,b;
```

```
    printf("enter the 2 no:");
```

```
    scanf("%d %d",&a,&b);
```

```
    printf("\nbefore swapping %d,%d",a,b);
```

```
    swap(&a,&b);
```

```
    printf("\nafter swapping %d,%d",a,b);
```

```
}
```

Question 6

```
#include <math.h>
```

```
#include<stdlib.h>
```

```
#include <string.h>
```

```
#include <stdio.h>
```

```
void swap(int*a,int *b,int*c)
```

```
{
```

```
    int t,n;
```

```
    t=*a;
```

```
    n=*c;
```

```
    *c= *b;
```

```

    *b=t;

    *a=n;

}

int main()
{
    int a,b,c;

    printf("enter the 3 no:");

    scanf("%d %d %d",&a,&b,&c);

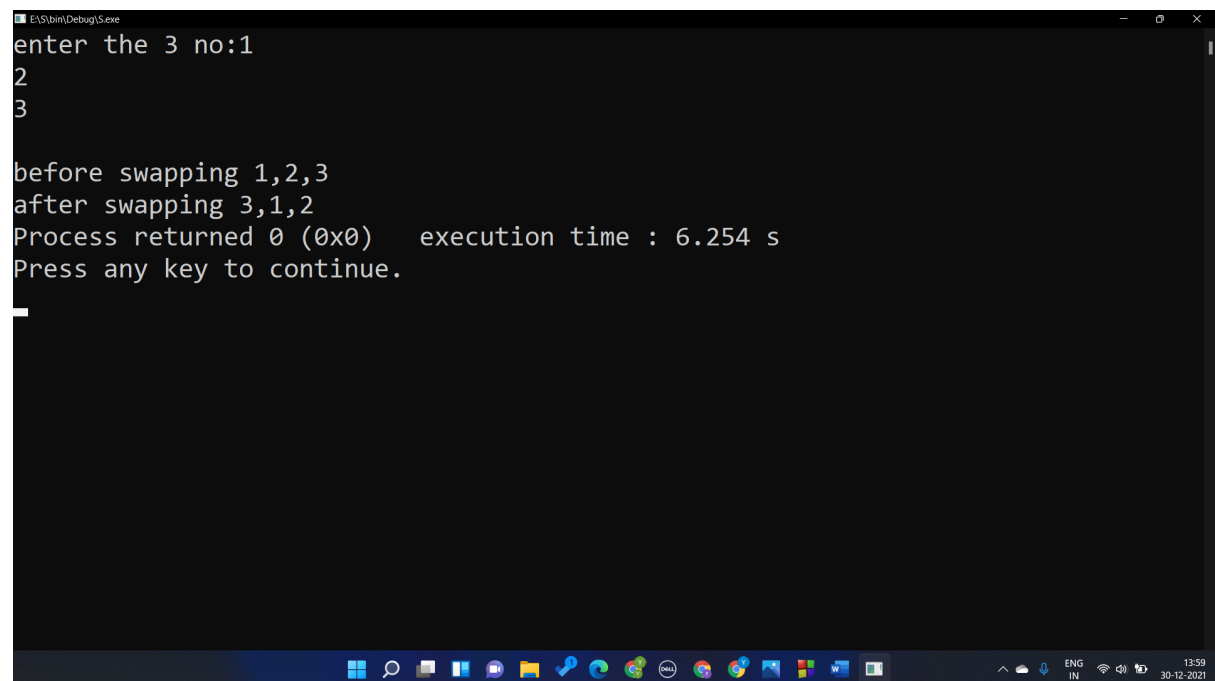
    printf("\nbefore %d,%d,%d",a,b,c);

    swap(&a,&b,&c);

    printf("\nafter circular rotation %d,%d,%d",a,b,c);

}

```



```

E:\S\bin(Debug)\S.exe
enter the 3 no:1
2
3

before swapping 1,2,3
after swapping 3,1,2
Process returned 0 (0x0)   execution time : 6.254 s
Press any key to continue.

```