mpiler

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main.c

```c
#include <stdio.h>
#include <stdlib.h>
# define STACK_SIZE 3
int top = -1;
int s[10];
int item;

void push()
{
    if (top==STACK_SIZE-1)
    {
        printf("Stack over_flow\n");
        return;
    }
    top=top+1;
    s[top]=item;
}

int pop()
{
    if (top==-1)
        return -1;
    return s[top--];
}

void display()
{
    int i;
    if(top==-1)
    {
        printf("Stack is underflow\n");
        return;
    }
    printf("contents of the stack\n");
    for (i=top;i>=0;i--)
    {
```

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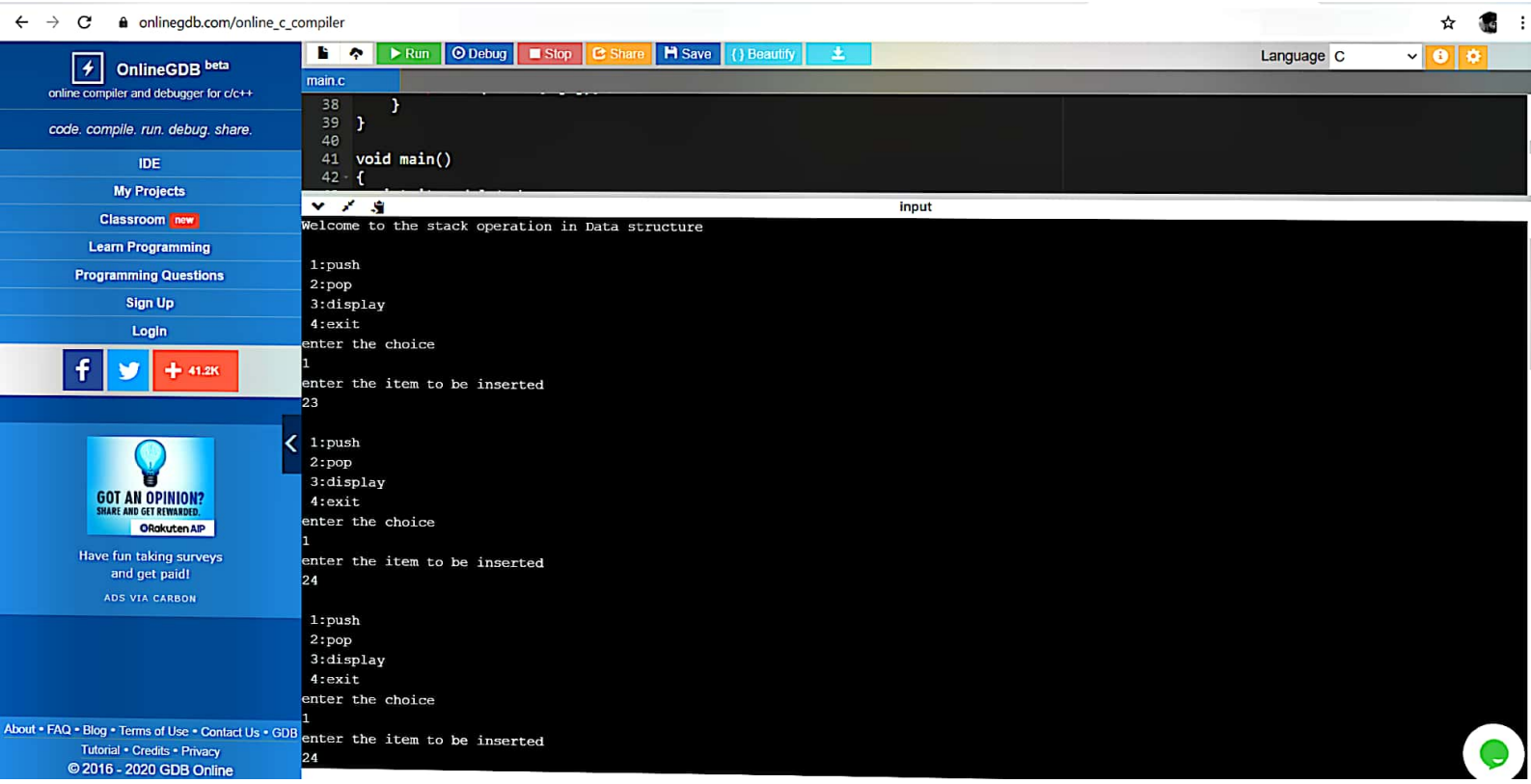

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```
    }
}

void main()
{
```

input

```
24

 1:push
 2:pop
 3:display
 4:exit
enter the choice
1
enter the item to be inserted
12
Stack over_flow

 1:push
 2:pop
 3:display
 4:exit
enter the choice
2
item_deleted is 24

 1:push
 2:pop
 3:display
 4:exit
enter the choice
2
item_deleted is 24
```

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```
    }
}

void main()
{
```

input

```
 1:push
 2:pop
 3:display
 4:exit
enter the choice
2
item_deleted is 23

 1:push
 2:pop
 3:display
 4:exit
enter the choice
2
Stack is empty

 1:push
 2:pop
 3:display
 4:exit
enter the choice
3
Stack is underflow

 1:push
 2:pop
 3:display
```

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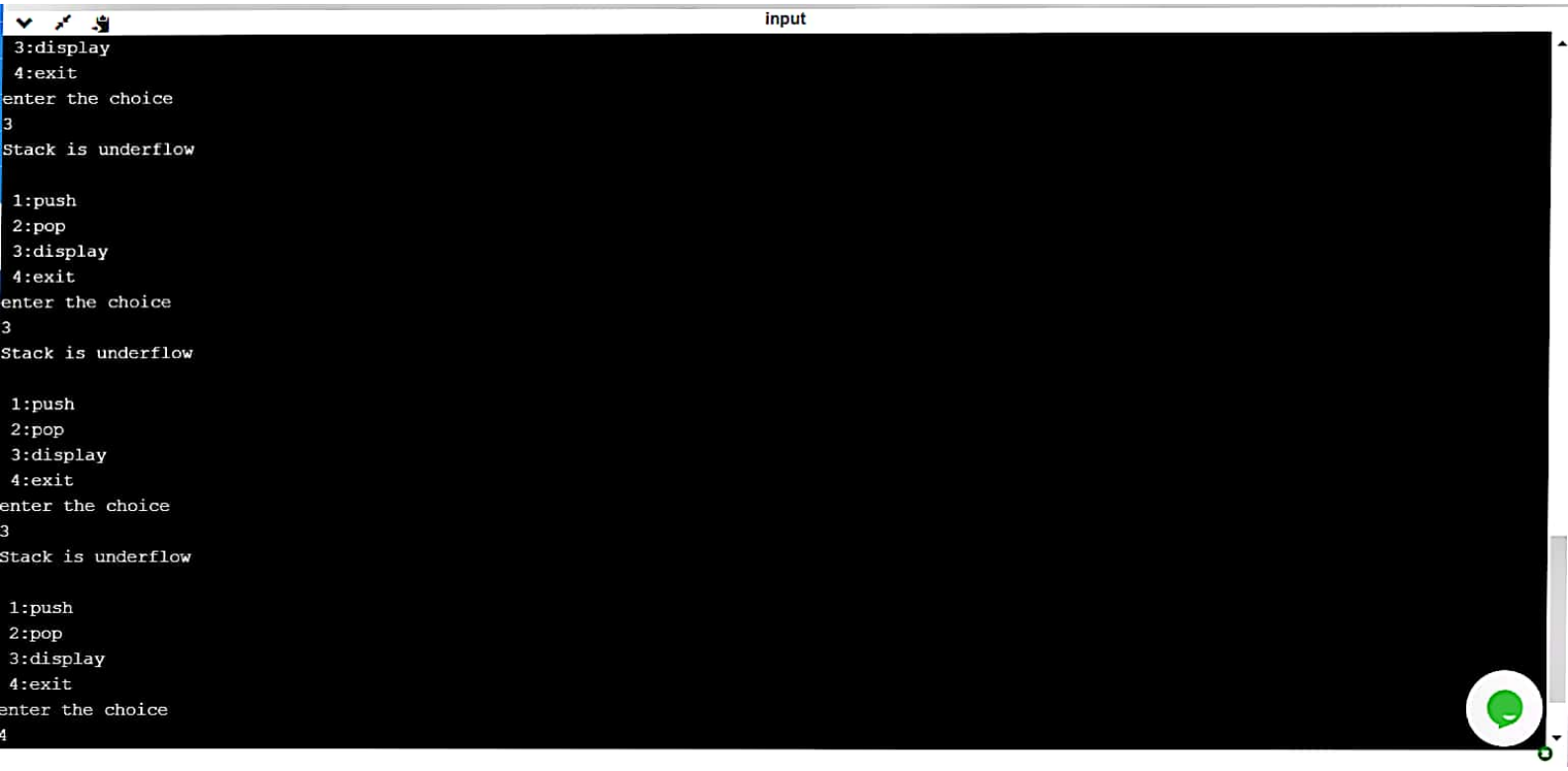

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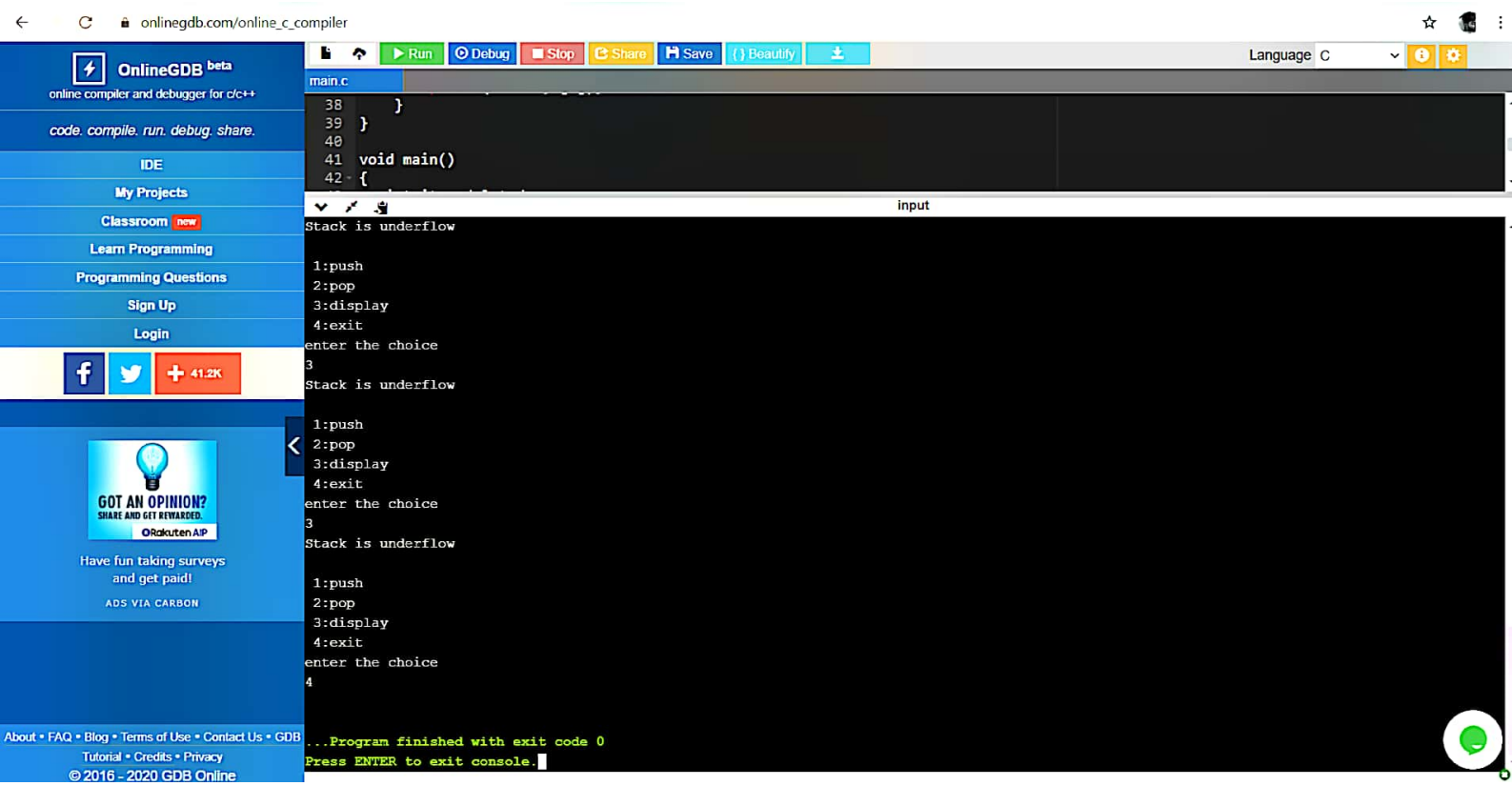

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