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mpiler
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E ↑ Run O Debug Stop C Share
                                                                                                                                                                        Language C
main.c
  1 #include <stdio.h>
2 #include <stdlib.h>
3 # define STACK_SIZE 3
4 int top = -1;
5 int s[10];
6 int item;
7
 8 vo
9 - {
10
       void push()
              if (top==STACK_SIZE-1)
 111
 12
13
                    printf("Stack over_flow\n");
                    return;
              }
top=top+1;
s[top]=item;
 14
 15
 16
17 }
18
19 in
20 {
       int pop()
              if (top==-1)
    return -1;
return s[top--];
 22
23
24
25
26 vo
27 {
28
29
30 31
31
32
33
34
35
       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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main.c
 36
                     printf("%d\n",s[i]);
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41 v(

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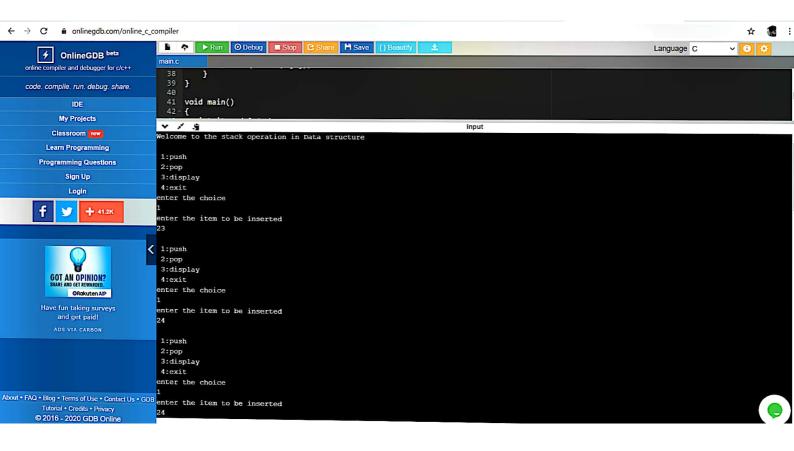
55

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69
       void main()
             int item_deleted;
int choice;
printf("Welcome to the stack operation in Data structure\n");
             for(;;)
                   printf("\n 1:push \n 2:pop \n 3:display \n 4:exit\n" );
printf("enter the choice\n");
scanf("%d",&choice);
                    switch(choice)
                         case 1: printf("enter the item to be inserted\n");
    scanf("%d",&item);
    push();
    break;
case 2: item_deleted=pop();
    if(item_deleted==-1)
                                       printf("Stack is empty\n");
else
                          printf("item_deleted is %d\n",item_deleted);
break;
case 3: display();
                          break;
default : exit(0);
                   }
 70
71 }
             }
```



```
38
39 }
  41 void main()
42 - {
∨ ✓ ⅓
24
                                                                                               input
 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
item_deleted is 24
1:push
2:pop
3:display
4:exit
enter the choice
item_deleted is 24
```

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38
39 }
40
 41 void main()
42 {
Y / A
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
Stack is empty
1:push
2:pop
3:display
4:exit
enter the choice
Stack is underflow
1:push
2:pop
3:display
```

