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Online C Compiler - online editor

Online C Compiler

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main.c

```
30     for(int k=i+1;k<n;k++)
31         printf("%d ",a[k]);
32     }
33     int main()
34     {
35         int n;
36         printf("Enter the number of elements\n");
37         scanf("%d",&n);
38         int a[n],res,max;
39         printf("Enter the elements\n");
40         for(int i=0;i<n;i++)
41         {
42             scanf("%d",&a[i]);
43         }
44         res=largest(a,n);
45         printf("Maximum element within the given elements %d\n",res);
46         print_rest(a,n,res);
47     }
```

input

Enter the number of elements
5
Enter the elements
22
44
66
100
45
Maximum element within the given elements 100
Elements before largest:
22 44 66
Elements after largest :
45
...Program finished with exit code 0
Press ENTER to exit console

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22:38
30-04-2021

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```
#include <stdio.h>
#include <stdlib.h>
#define SIZE 20
#define TRUE 1
#define FALSE 0
struct book
{
    int book_id;
    char title[10];
    char author[10];
    float price;
    int no_pages;
};
void push(struct book, int *, struct book[]);
struct book pop(int *, struct book []);
struct book peep(int , struct book []);
void display(int , struct book []);
int stackfull(int *);
int stackempty(int *);
int stackfull(int *tos)
{
    if((*tos)==SIZE-1)
        return TRUE;
    return FALSE;
}
int stackempty(int *tos)
{
    if((*tos)==-1)
        return TRUE;
    return FALSE;
}
void push(struct book ele, int *tos, struct book stack[])
{
    stack[++(*tos)]=ele;
}
```


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Language C

main.c

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```
int main()
{
    struct book stack[SIZE], ele;
    int choice, item;
    int top=-1;
    struct book pop_item, peep_item;
    for(;;)
    {
        printf("\nEnter 1 for push, 2 for pop 3 for pip and 4 for display 5 for exit\n");
        scanf("%d", &choice);
        switch(choice)
        {
            case 1: if(stackfull(&top))
                    {
                        printf("The Stack is full\n");
                        break;
                    }
                    printf("Enter the book id title, author name, price and number of pages in order\n");
                    scanf("%d%s%s%f", &ele.book_id, ele.title, ele.author, &ele.price, &ele.no_pages);
                    push(ele,&top,stack);
                    break;
            case 2: if (stackempty(&top))
                    {
                        printf(" The stack is empty \n");
                        break;
                    }
                    pop_item=pop(&top, stack);
                    printf("The detailes of popped record are\n");
                    printf("%d\t %s\t %s\t %.2f\t %d\n", pop_item.book_id, pop_item.title, pop_item.author, pop_item.price, pop_i
                    top--;
                    break;
            case 3: if (stackempty(&top))
                    {
                        printf(" The stack is empty \n");
                        break;
                    }
                }
```

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main.c

Run Debug Stop Share Save Beautify

Language C

```
84         break;
85     case 2: if (stackempty(&top))
86     {
87         printf(" The stack is empty \n");
88         break;
89     }
90     pop_item=pop(&top, stack);
91     printf("The detailes of popped record are\n");
92     printf("%d\t %s\t %s\t %.2f\t %d\n", pop_item.book_id, pop_item.title, pop_item.author, pop_item.price, pop_i
93     top--;
94     break;
95     case 3: if (stackempty(&top))
96     {
97         printf(" The stack is empty \n");
98         break;
99     }
100    peep_item=peep(top, stack);
101    printf("The item at the top of the stack is\n");
102    printf("%d\t %s\t %s\t %.2f\t %d\n", peep_item.book_id, peep_item.title, peep_item.author, peep_item.price, p
103    break;
104    case 4 : if (stackempty(&top))
105    {
106        printf(" The stack is empty \n");
107        break;
108    }
109    printf("The content of the stack are \n");
110    display(top, stack);
111    break;
112    case 5:exit(0);
113    default: printf("Enter a valid choice\n");
114    }
115
116    }
117
118
119    return 0;
120 }
```

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main.c

```
8 #include<stdio.h>
9 #define MAX 3
10 void push(int a[],int *top)
11 {
12     int ele;
13     if((*top)==MAX){
14         a=(int*)realloc(a,MAX*2);
15         printf("Size Doubled...\n");
16     }
17     printf("Enter ele: ");
18     scanf("%d",&ele);
19     a[++(*top)]=ele;
20 }
21
22 void pop(int a[],int *top)
23 {
24     if((*top)==-1)
25     {
26         printf("Underflow\n");
27         return;
28     }
29     printf("Popped ele: %d\n",a[(*top)]);
30     (*top)--;
31 }
32
33 void display(int a[],int top)
34 {
35     if(top==-1)
36         printf("Stack Empty\n");
37     for(int i=top;i>=0;i--)
38         printf("%d ",a[i]);
39 }
40
41 int main()
42 {
43     int a[MAX];
44     int top=-1;
45     while(1)
46     {
47         printf("1.Push 2.Pop 3.Display 4.Exit\n");
48         int choice;
49         scanf("%d",&choice);
50         switch(choice)
51         {
52             case 1: push(a,&top); break;
53             case 2: pop(a,&top); break;
54             case 3: display(a,top); break;
55             case 4: exit(0); break;
56             default: continue;
57         }
58     }
59 }
```

Input

4.Exit

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main.c

37 for (int i=top; i<0; i++)
38 printf("%d ",a[i]);
39 }
40 int main()
41 {
42 int ch,top=-1;
43 int *a;
44 a=(int*)malloc(sizeof(int)*MAX);
45 for(;;)
46 {
47 printf("1.Push\n2.Pop\n3.Display\n4.Exit\n");
48 scanf("%d",&ch);
49 switch(ch)
50 {
51 case 1: push(a,&top); break;
52 case 2: pop(a,&top); break;
53 case 3: display(a,top); break;
54 case 4: return 0;
55 }
56 }
57 return 0;
58 }
59 }

input

4.Exit
1
Enter ele: 7
1.Push
2.Pop
3.Display
4.Exit
2
Popped ele: 7
1.Push
2.Pop
3.Display
4.Exit

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```
main.c
1  #include<stdio.h>
2  #define MAX 3
3  void push(int a[],int *top)
4  {
5      int ele;
6      if((*top)==MAX){
7          printf("Overflow\n");
8      }
9      printf("Enter ele: ");
10     scanf("%d",&ele);
11     a[++(*top)]=ele;
12 }
13
14 void pop(int a[],int *top)
15 {
16     if((*top)==-1)
17     {
18         printf("Underflow\n");
19         return;
20     }
21     printf("Popped ele: %d\n",a[(*top)]);
22     (*top)--;
23 }
24
25 void display(int a[],int top)
26 {
27     if(top==-1)
28     {
29         printf("Stack Empty\n");
30     }
31     for(int i=top;i>=0;i--)
32     {
33         printf("%d ",a[i]);
34     }
35 }
36
37 int main()
38 {
39     int a[MAX];
40     int top=-1;
41     int n;
42     printf("Enter number of elements: ");
43     scanf("%d",&n);
44     printf("Enter %d elements:\n",n);
45     for(int i=0;i<n;i++)
46     {
47         push(a,&top);
48     }
49     printf("Stack elements are:\n");
50     display(a,top);
51     printf("Press 1 to push, 2 to pop, 3 to display, 4 to exit\n");
52     int ch;
53     while(ch!=4)
54     {
55         scanf("%d",&ch);
56         switch(ch)
57         {
58             case 1:
59                 push(a,&top);
60                 break;
61             case 2:
62                 pop(a,&top);
63                 break;
64             case 3:
65                 display(a,top);
66                 break;
67             case 4:
68                 break;
69         }
70     }
71 }
```

Input

3. Display

4. Exit

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main.c

24 {

25 printf("Underflow\n");

26 return;

27 }

28 printf("Popped ele: %d\n",a[(*top)]);

29 (*top)--;

30 }

31

32 void display(int a[],int top)

33 {

34 if(top== -1)

35 printf("Stack Empty\n");

36 for(int i=top;i>=0;i--)

37 printf("%d ",a[i]);

38 }

39 int main()

40 {

41 int ch,top=-1;

42 int a[MAX];

43 for(;;)

44 {

45 printf("1.Push\n2.Pop\n3.Display\n4.Exit\n");

46 scanf("%d",&ch);

47 switch(ch)

48 {

49 case 1: push(a,&top); break;

50 case 2: pop(a,&top); break;

51 case 3: display(a,top); break;

52 case 4: return 0;

53 }

54 }

55 return 0;

56 }

Input


3. Display

4. Exit

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input

```
1.Push
2.Pop
3.Display
4.Exit
1
Enter ele: 45
1.Push
2.Pop
3.Display
4.Exit
1
Enter ele: 7
1.Push
2.Pop
3.Display
4.Exit
2
Popped ele: 7
1.Push
2.Pop
3.Display
4.Exit
3
45 1.Push
2.Pop
3.Display
4.Exit
```

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Language C

main.c

```
8 #include<stdio.h>
9 #include<string.h>
10 #include <stdlib.h>
11 void push(int *s,int *rear,int n)
12 {
13     int elem;
14     scanf("%d",&elem);
15     if(*rear==n-1)
16     {
17         printf("queue overflow\n");
18     }
19     (*rear)++;
20     s[*rear]=elem;
21 }
22 void display(int *s,int front ,int rear)
23 {
24     printf("elem\n");
25     for(int i=front;i<=rear;i++)
26     {
27         printf("%d \n",s[i]);
28     }
29 }
30 void pop(int *a,int *f,int *r,int *n)
31 {
32     if(*f>*r)
33     {
34         printf("Queue is in under flow\n");
35         return;
36     }
37     (*f)++;
38     (*n)--;
39     a=realloc(a,(*n)*sizeof(a));
40 }
41 int main()
42 {
```

input

Type here to search

22:52 30-04-2021

The image shows a web browser window with the OnlineGDB website. The browser's address bar shows 'onlinegdb.com/online_c_compiler'. The website has a dark blue sidebar on the left with various navigation links. The main content area is white and displays a C++ program for a linked list. The program prompts the user to enter the length of the array (5) and then for choices to perform operations (1. Insert, 2. Delete, 3. Display, 0. Exit). The output shows the program running and displaying the array elements: 1, 45, 12, 23, 2, 3, elem.