

WhatsApp x New Tab x DS LAB TEST - 1(A1) x Meet - cca-fgyo-kxi x Online C Compiler - online ed x

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Language C

main.c

```
9 #include <stdio.h>
10 #include <stdlib.h>
11 #define MAX 5
12 int stack1[MAX],stack2[MAX];
13 int top1=-1,top2=-1;
14
15 int table1[MAX];
16 int table2[MAX];
17
18 void push1(int);
19 void push2(int);
20
21 int pop1();
22 int pop2();
23
24 void display1();
25 void display2();
26
27 int main(int argc, char **argv)
28 {
```

input

```
2. Remove Plate
3. No. Of Plates
4. Exit
Enter the option :

```

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Language C

main.c

```
27 int main(int argc, char **argv)
28 {
29     int option;
30     int item, table_no;
31     do{
32         printf("=====\n");
33         printf("\n 1. Enter Plate");
34         printf("\n 2. Remove Plate");
35         printf("\n 3. No. Of Plates ");
36         printf("\n 4. Exit\n");
37         printf("Enter the option :\n");
38         scanf("%d",&option);
39
40
41         switch(option)
42         {
43             case 1: printf("===Enter the table no ===\n");
44                     scanf("%d",&table_no);
45                     if(table_no%2==0)
46                         push1(table_no);
```

input

2. Remove Plate
3. No. Of Plates
4. Exit
Enter the option :
□

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Language C

main.c

```
46 push1(table_no);
47 else
48 push2(table_no);
49 break;
50 case 2: printf("Enter the pile no from which you want to remove the plate\n");
51 scanf("%d",&item);
52 if(item == 1)
53 table_no=pop1();
54 else
55 table_no=pop2();
56
57
58 if(table_no==-1)
59 printf("====No plates in pile %d====\n",item);
60 else
61 printf("====Plate of table %d removed from pile no: %d====\n",table_no,(!(table_no%2) + 1));
62 break;
63 case 3:
64 display1();
65 display2();
66 break;
```

input

2. Remove Plate
3. No. Of Plates
4. Exit
Enter the option :
□

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Language C

main.c

```
64         display1();
65         display2();
66         break;
67     case 4: exit(0);
68     }
69 } while (option!=4);
70 return 0;
71 }
72
73 void push1(int ele)
74 {
75     if (top1==MAX-1)
76         printf("====Pile 1 is full!. Wait for sometime====\n");
77     else
78     {
79         top1++;
80         stack1[top1]=ele;
81     }
82 }
83 }
```

input

2. Remove Plate
3. No. Of Plates
4. Exit
Enter the option :
□

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main.c

```
84 void push2(int ele)
85 {
86     if (top2==MAX-1)
87         printf("====Pile 2 is full. Wait for sometime.====\n");
88     else
89     {
90         top2++;
91         stack2[top2]=ele;
92     }
93     return;
94 }
95
96 int pop1()
97 {
98     int item;
99     if( (top1== -1))
100         return -1;
101     else
102     {
103         item=stack1[top1];
```

input

2. Remove Plate
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Enter the option :
□

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DS LAB TEST - 1(A1)
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Language C

main.c

```
102 {  
103     item=stack1[top1];  
104     top1--;  
105     return item;  
106 }  
107  
108 }  
109 int pop2()  
110 {  
111     int item;  
112     if((top2==-1))  
113         return -1;  
114     else  
115     {  
116         item=stack2[top2];  
117         top2--;  
118         return item;  
119     }  
120 }  
121 }
```

input

2. Remove Plate
3. No. Of Plates
4. Exit
Enter the option :
□

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Language C

```
main.c
113 return -1;
114 else
115 {
116     item=stack2[top2];
117     top2--;
118     return item;
119 }
120
121 }
122
123 void display1()
124 {
125     int i;
126     if(top1==-1)
127         printf("====No plates in pile1====\n");
128     else
129     {
130         printf("\n====Plates in Pile1====\n");
131         for(i=0;i<=top1;i++)
132             printf("%d\n", stack1[i]);
133     }
134 }
```

input

2. Remove Plate
3. No. Of Plates
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Enter the option :
□

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Language C

main.c

```
113     return -1;
114     else
115     {
116         item=stack2[top2];
117         top2--;
118         return item;
119     }
120
121 }
122
123 void display1()
124 {
125     int i;
126     if(top1==-1)
127         printf("====No plates in pile1====\n");
128     else
129     {
130         printf("\n====Plates in Pile1====\n");
131         for(i=0;i<=top1;i++)
132             printf("%d\n", stack1[i]);
133     }
134 }
```

input

Enter the option :

...Program finished with exit code 9
Press ENTER to exit console.

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Language: C

main.c

```
128     else
129     {
130         printf("\n=====Plates in Pile1:=====\n");
131         for(i=0;i<=top1;i++)
132             printf("%d\n", stack1[i]);
133     }
134 }
135 void display2()
136 {
137     int i;
138     if(top2== -1)
139         printf("=====No plates in pile2=====\n");
140     else
141     {
142         printf("=====Plates in Pile2:=====\n");
143         for(i=0;i<=top2;i++)
144             printf("%d\n", stack2[i]);
145     }
146 }
147
```

input

Enter the option :

...Program finished with exit code 9
Press ENTER to exit console.

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