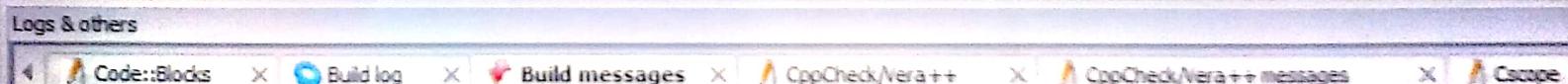


```
1 #include<stdio.h>
2 #define size 10
3 int top1=-1;
4 int top2=-1;
5 int stack1[size];
6 int stack2[size];
7 void push1(int ele)
8 {
9     if(top1==size-1)
10    {
11        printf("Stack overflow\n");
12    }
13    else
14    {
15        top1++;
16        stack1[top1]=ele;
17    }
18 }
19 int pop1()
20 {
21     if(top1== -1)
22     {
23         printf("Stack underflow\n");
24         return -1;
25     }
26 }
```

A screenshot of the Code::Blocks IDE interface. The title bar shows several tabs: "Logs & others", "Code::Blocks", "Build log", "Build messages", "CppCheck/Vera++", and "CppCheck/Vera++ messages". The "Build messages" tab is currently active. The main window displays a table with columns "File", "Line", and "Message". The message content is as follows:

File	Line	Message
		==== Build file: "no target" in "no project" (compiler: unknown) ==== ==== Build file: "no target" in "no project" (compiler: unknown) ==== warning(s), 0 minute(s), 1 second(s) ===

```
24         return -1;
25     }
26     else
27     {
28         int x=stack1[top1];
29         top1--;
30         return x;
31     }
32 }
33 void display1()
34 {
35     int i;
36     if(top1== -1)
37     {
38         printf("Stack is empty\n");
39     }
40     else
41     {
42         for(i=top1;i>=0;i--)
43         {
44             printf("%d\n",stack1[i]);
45         }
46     }
47 }
```

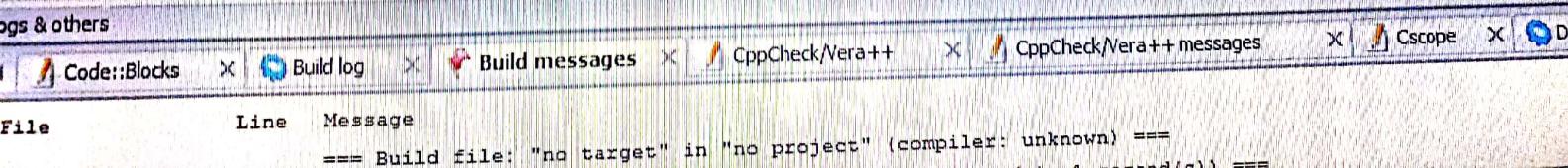


```
48
49     void push2(int ele)
50     {
51         if(top2==size-1)
52         {
53             printf("Stack overflow\n");
54         }
55     else
56     {
57         top2++;
58         stack2[top2]=ele;
59     }
60 }
61     int pop2()
62 {
63     if(top2== -1)
64     {
65         printf("Stack underflow\n");
66         return -1;
67     }
68     else
69     {
70         int x=stack2[top2];
71         top2--;
72 }
```

Logs & others

File	Line	Message
		==== Build file: "no target" in "no project" (compiler: unknown)
		==== Build finished: 0 error(s), 0 warning(s) (0 minute(s),

```
71     top2--;
72     return x;
73 }
74 }
75 void display2()
76 {
77     int i;
78     if(top2== -1)
79     {
80         printf("Stack is empty\n");
81     }
82     else
83     {
84         for(i=top2;i>=0;i--)
85         {
86             printf("%d\n", stack2[i]);
87         }
88     }
89 }
90 void merged()
91 {
92     int t1,t2,i;
93     int s1[size],s2[size];
94     t1=0;
```



```
94 t1=0;
95 t2=-1;
96 for(i=top2;i>=0;i--)
97 {
98     t2++;
99     s2[t2]=stack2[i];
100 }
101 int mergedlist[size];
102 t1=top1;
103 i=0;
104 while(t1>=0&&t2>=0)
105 {
106     mergedlist[i]=stack1[t1]+s2[t2];
107     t1--;
108     t2--;
109     i++;
110 }
111 while(t1>=0)
112 {
113     mergedlist[i]=stack1[t1];
114     t1--;
115     i++;
116 }
117 while(t2>=0)
```

```
117     while(t2>=0)
118     {
119         mergedlist[i]=s2[t2];
120         t2--;
121         i++;
122     }
123     printf("Merged list is : \n");
124     for(int j=0;j<i;j++)
125     {
126         printf("%d\n",mergedlist[j]);
127     }
128 }
129 int main()
130 {
131     int x=1,ele;
132     int i=0;
133     printf("enter the elements of stack 1 : \n");
134     while(x!=0)
135     {
136         printf("\nEnter 1 for push\n");
137         printf("Enter 2 for pop\n");
138         printf("Enter 3 for display\n");
139         printf("Enter 0 for exit\n");
140     }
}
```

Start here *Untitled1 *Untitled2 *stack.c DSLABTEST.c

```
140         printf("Enter 0 for exit\n");
141         scanf("%d", &x);
142         if(x==0)
143         {
144             break;
145         }
146         if(x==1)
147         {
148             printf("Enter the element : ");
149             scanf("%d", &ele);
150             push1(ele);
151         }
152         else if(x==2)
153         {
154             int popele=pop1();
155             printf("The element popped out is : %d",popele);
156         }
157         else if(x==3)
158         {
159             printf("The stack is : \n");
160             display1();
161         }
162     }
163     x=1;
```

Logs & others

Code::Blocks Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages

```
163     x=1;
164     printf("enter the elements of stack 2 : \n");
165     while(x!=0)
166     {
167         printf("\nEnter 1 for push\n");
168         printf("Enter 2 for pop\n");
169         printf("Enter 3 for display\n");
170         printf("Enter 0 for exit\n");
171         scanf("%d", &x);
172         if(x==0)
173         {
174             break;
175         }
176         if(x==1)
177         {
178             printf("Enter the element : ");
179             scanf("%d", &ele);
180             push2(ele);
181         }
182         else if(x==2)
183         {
184             int popele=pop2(stack1);
185             printf("The element popped out is : %d", popele);
186         }
}
```

```
    scanf ("%d", &ele);
    push2 (ele);
}
else if (x==2)
{
    int popele=pop2 (stack1);
    printf ("The element popped
}
else if (x==3)
{
    printf ("The stack is : \n");
    display2 ();
}
merged ();
return 0;
}
```