



CODERS HOME

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HOME

October 11, 2021

STACK IMPLEMENTATION USING ARRAY

```
1. #include<stdio.h>
2. #include<stdlib.h>
3. #define N 5
4.
5. //FUNCTIONS
6. void push();
7. void pop();
8. void peep();
9. void change();
10. void Display();
11.
12.
13. //GLOBAL
14. int stack[N];
15. int top=0;
16.
17. //DRIVER PROGRAM
18. int main(){
19.     int choice=0;
20.     while(choice!=6){
21.         printf("\n***STACK MENU***\n\n");
22.         printf("\n1. PUSH");
23.         printf("\n2. POP");
24.         printf("\n3. PEEK");
25.         printf("\n4. CHANGE");
26.         printf("\n5. DISPLAY");
27.         printf("\n6. EXIT");
28.         printf("\nENTER CHOICE ");
29.         scanf("%d",&choice);
```

```

30.             switch(choice){
31.                 case 1:
32.                     push();
33.                     break;
34.                 case 2:
35.                     pop();
36.                     break;
37.                 case 3:
38.                     peep();
39.                     break;
40.                 case 4:
41.                     change();
42.                     break;
43.                 case 5:
44.                     Display();
45.                     break;
46.                 case 6:
47.                     exit(0);
48.                 default:
49.                     printf("\nERROR:-> WRONG CHOICE ");
50.                     break;
51.             }
52.     }
53.     return 0;
54. }
55.
56. //TO PUSH THE ELEMENTS IN STACK
57. void push(){
58.     int x;
59.     if(top==N){
60.         printf("\nOVERFLOW ON PUSH");
61.     }
62.     else{
63.         printf("ENTER X ");
64.         scanf("%d",&x);
65.         top++;
66.         stack[top]=x;
67.         Display();
68.     }
69. }
70.
71. //TO POP THE FIRST ELEMENT FROM THE STACK
72. void pop(){
73.     if(top==0){
74.         printf("\n UNDERFLOW ON POP");

```

```

75.     }
76.     else{
77.         printf("\n%d Deleted",stack[top]);
78.         top--;
79.     }
80. }
81.
82. //TO SEE ELEMENT AT GIVEN POSITION (LIFO)
83. void peep(){
84.     int pos,x;
85.     printf("ENTER POSITION ");
86.     scanf("%d",&pos);
87.     if(top-pos+1<=0){
88.         printf("\nUNDERFLOW ON PEEP");
89.     }
90.     else if(top-pos+1>N){
91.         printf("\nOVERFLOW ON PEEP");
92.     }
93.     else{
94.         x=stack[top-pos+1];
95.         printf("%d",x);
96.     }
97. }
98.
99. //TO CHANGE ELEMENT AT GIVEN POSITION (LIFO)
100. void change(){
101.     int pos,x;
102.     printf("ENTER POSITION ");
103.     scanf("%d",&pos);
104.     if(top-pos+1<=0){
105.         printf("\nUNDERFLOW ON CHANGE");
106.     }
107.     else if(top-pos+1>N){
108.         printf("\nOVERFLOW ON CHANGE");
109.     }
110.     else{
111.         printf("ENTER X ");
112.         scanf("%d",&x);
113.         stack[top-pos+1]=x;
114.     }
115. }
116.
117.
118. //TO DISPLAY STACK
119. void Display(){

```

```
120.     int i;  
121.     for(i=top;i>0;i--){  
122.         printf("%d ",stack[i]);  
123.     }  
124. }
```

```
***STACK MENU***  
  
1. PUSH  
2. POP  
3. PEEK  
4. CHANGE  
5. DISPLAY  
6. EXIT  
ENTER CHOICE
```

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Labels: Stack implementation Using Array, Stack in Data structures

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```
What's your Limit ? 5
```

```
Enter 1 Data 10
```

```
Enter 2 Data 20
```

```
Enter 3 Data 30
```

```
Enter 4 Data 40
```

```
Enter 5 Data 50
```

```
What's your limit? 5
```

```
Enter 1 Data 5
```

```
Enter 2 Data 15
```

```
Enter 3 Data 25
```

```
Enter 4 Data 35
```

```
Enter 5 Data 45
```

```
Sorted successfully
```

```
5 10 15 20 25 30 35 40 45 50
```

October 01, 2021

MERGE SORT

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```
Enter your Limit 5
Enter 1 Data 20
Enter 2 Data 10
Enter 3 Data 40
Enter 4 Data 30
Enter 5 Data 25
Data Sorted Successfully
10 20 25 30 40
```

September 21, 2021

WRITE A C PROGRAM FOR SORTING USING SHELL SORT

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```
What's Your limit ? 5
Enter 1 Data 50
Enter 2 Data 20
Enter 3 Data 60
Enter 4 Data 90
Enter 5 Data 10
Sorted successfully
10 20 50 60 90
```

September 24, 2021

WRITE A C PROGRAM USING QUICK SORT(PARTITION EXCHANGE SORT) METHOD

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```
Shorted array is
-5 15 30 40 50
-----
Process exited after 0.01619 seconds with return value 0
Press any key to continue . . .
```

August 24, 2021

SELECTION SHORT PROGRAM IN C | SELECTION SHORT ALGORITHM

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```
1 2 3 4 5 6 7 8
-----
Process exited after 0.01401 seconds with return value 0
Press any key to continue . . . █
```

August 25, 2021

HOW TO IMPLEMENT MERGE SORT IN C

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Labels

