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Write a C program to implement Stack operations such as PUSH, POP and PEEK
#include<stdio.h>
#include<stdlib.h>
#define Size 4
int Top=-1, inp_array[Size];
void Push();
void Pop();
void show();
int main()
{
       int choice;
       while(1)
       {
               printf("\nOperations performed by Stack");
               printf("\n1.Push the element\n2.Pop the element\n3.Show\n4.End");
               printf("\n\nEnter the choice:");
               scanf("%d",&choice);
               switch(choice)
               {
                       case 1: Push();
                                       break;
                       case 2: Pop();
                                       break;
                       case 3: show();
```

break;

```
case 4: exit(0);
                        default: printf("\nInvalid choice!!");
                }
       }
}
void Push()
{
        int x;
        if(Top==Size-1)
        {
                printf("\nOverflow!!");
        }
        else
        {
                printf("\nEnter element to be inserted to the stack:");
                scanf("%d",&x);
                Top=Top+1;
                inp_array[Top]=x;
        }
}
void Pop()
{
        if(Top==-1)
        {
                printf("\nUnderflow!!");
        }
        else
```

```
{
                printf("\nPopped element: %d",inp_array[Top]);
                Top=Top-1;
        }
}
void show()
{
        if(Top==-1)
        {
                printf("\nUnderflow!!");
        }
        else
        {
                printf("\nElements\ present\ in\ the\ stack:\n");
                for(int i=Top;i>=0;--i)
                        printf("%d\n",inp_array[i]);
       }
}
```

```
Operations performed by Stack

1. Push the element

2. Pop the element

3. Show

4. End

Enter the choice:1

Enter element to be inserted to the stack:10

Operations performed by Stack

1. Push the element

2. Pop the element

3. Show

4. End

Enter the choice:4

... Program finished with exit code 0

Press ENTER to exit console.
```