```
#include<stdio.h>
#include<stdlib.h>
int size;
int arr[25];
int top = 1;
int item;
void push();
int pop();
void display();
int main()
{
int item_del;
int ch;
Printf("Enter size of stack\n");
scanf("%d", &size);
for (;;)
{
Printf("\n1.Push\n2.pop\n3.display\n
  exit\n");
  fflush(stdin);
scanf("%d", &ch);
switch(ch)
{
case 1: push();
break;
case 2: item_del = pop();
if(item_del == -1)
Printf("Item deleted : %d\n", item_del
break;
```

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```
case 3: display();
 break;
 case 0: exit(0);
  break;
  default: printf("invalid choice\n");
  }
  }
  return 0;
  }
  void push
  {
  if(top==size-1)
  {
  Printf("stack is filled\n");
  return;
   }
  Printf("Enter item to be inserted in stack\n");
  fflush(stdin);
   Scanf("%d",&item)
   top++
   arr[top]=item
   }
  int pop()
  {
  if(top==-1)
  {
   return -1;
   }
   else
   {
```

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```
return arr[top--];
}
}
void display ()
{
 int i;
 if (top==-1)
{
 Printf("stack is empty\n");
 }
 else
for (i=0;i<=top;i++)
{
Printf("Element %d : %d\n", i+1, arr[i]);
  }
  }
```

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