

```
#include <stdio.h>
```

```
int stack[100],top1=-1,top2=100,x,choice;
```

```
void push1( )
```

```
{
    if (top1+1==top2)
        printf("Stack is full\n");
    else
    {
        printf("Feed in the data to add: ");
        scanf("%d",&x);
        stack[++top1]=x;
        printf("Insertion Complete....\n\n");
    }
}
```

```
void push2( )
```

```
{
    if (top1+1==top2)
        printf("Stack is full\n");
    else
    {
        printf("Feed in the data to add: ");
        scanf("%d",&x);
        stack[--top2]=x;
        printf("Insertion Complete....\n\n");
    }
}
```

```
void pop1( )
```

```
{
    if(top1==--1)
    {
        printf("Stack1 is empty...\n");
    }
    else
    {
        x=stack[top1--];
        printf("Data popped=%d\n",x);
    }
}
```

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```
void pop2( )
{
    if(top2==100)
    {
        printf("Stack2 is empty...\n");
    }
    else
    {
        x=stack[top2++];
        printf("Data popped=%d\n",x);
    }
}
```

```
void main( )
{
    do
    {
        printf("1.Push in stack 1\n");
        printf("2.Push in stack 2\n");
        printf("3.Pop from stack 1\n");
        printf("4.Pop from stack 2\n");
        printf("5.Exit\n");
        printf("Feed in your choice:\n");
        scanf("%d", &choice);

        if (choice==1)
            push1();
        if (choice==2)
            push2();
        if (choice==3)
            pop1();
        if (choice==4)
            pop2();
    }while(choice!=5);
}
```

