```c
#include<stdio.h>
#include<stdlib.h>
void main()
{
    system("clear");
    int n,top1,top2,ch=1,a,i,arr[0];
    printf("Enter size of array you want to use\n");
    scanf("%d",&n);
    arr[n];
    top1=-1;
    top2=n;
    while(ch!=0)
        {
        puts("----------------------------------------");
        printf("What do u want to do?\n\t1.Push element in stack 1\n\t2.Push element in stack 2\n\t3.Pop element from stack 1\n\t4.Pop element from stack 2\n\t5.Display stack 1\n\t6.Display stack 2\n\t7.EXIT\n");
        scanf("%d",&ch);
        puts("\n----------------------------------------");
        switch(ch)
        {
            case 1:
            {
                printf("Enter the element\n");
                scanf("%d",&a);
                if(top1!=(top2-1))
                    arr[++top1]=a;
                else
                    printf("Overflow\n");
                break;
            }
            case 2:
            {
                printf("Enter the element\n");
                scanf("%d",&a);
                if(top2!=(top1+1))
                    arr[--top2]=a;
                else
                    printf("Overflow\n");
                break;
            }
            case 3:
            {
                if(top1==-1)
                    printf("Stack1 is empty\n");
                else
                {
                    a=arr[top1--];
                    printf("%d\n",a);
                }
                break;
            }
            case 4:
            {
                if(top2==n)
                    printf("Stack2 is empty\n");
                else
                {
                    a=arr[top2++];
                    printf("%d\n",a);
                }
                break;
            }
            case 5:
            {
            if(top1==-1)
```

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65                  printf("Stack1 is empty\n");
66              else
67                  {
68                  printf("Stack1 is-->>\n");
69                  for(i=0;i<=top1;i++)
70                      printf("%d ",arr[i]);
71                  printf("\n");
72                  }
73                  break;
74              }
75              case 6:
76              {
77                  if(top2==n)
78                  printf("Stack2 is empty\n");
79                  else
80                  {
81                      printf("Stack2 is-->>\n");
82                      for(i=(n-1);i>=top2;i--)
83                          printf("%d ",arr[i]);
84                      printf("\n");
85                  }
86                  break;
87              }
88              case 7:exit(0);break;
89          }
90      }
91  }
```