```
#include <stdio.h>

void push(int stack[],int *top, int ele)
{
	*top = *top + 1;
	stack[*top] = ele;
}

int pop(int stack[], int *top)
{
	int ele;
	ele = stack[*top];
	*top = *top - 1;
	return(ele);
}

void enqueue(int stack1[], int *top1)
{
	int i, ele;

	printf("Enter the element:");
	scanf("%d", &ele);
	push(stack1, top1, ele);
}

void dequeue(int stack1[], int *top1, int stack2[], int *top2)
{
	int i;
	int count = *top1;
	for (i = 0;i <= count;i++)
	{
		push(stack2,top2,pop(stack1,top1));
	}
	printf("\nThe element %d is deleted from queue\n", pop(stack2,top2));

	count = *top2;
	for (i = 0;i <= count;i++)
	{
		push(stack1,top1,pop(stack2,top2));
	}
}

void display(int stack[], int *top)
{
	int i;

	for (i = 0;i <= *top; i++)
	{
		printf(" %d ", stack[i]);
	}
}

void main()
{
    int stack1[20], stack2[20];
```

```
    int top1 = -1, top2 = -1;
    int ch;
    int e = 1;

    printf("\nQUEUE using STACKS\n");
    while( e )
    {
        printf("\n---------MENU---------\n");
        printf("\n\t1. Enqueue\n\t2. Dequeue\n\t3. Display\n\t4. Exit\n");
        printf("\n----------------------\n");
        printf("Enter your choice:");
        scanf("%d", &ch);
        switch( ch )
        {
            case 1: enqueue(stack1, &top1);
                    break;
            case 2: dequeue(stack1,&top1,stack2,&top2);
                    break;
            case 3: display(stack1,&top1);
                    break;
            case 4: e = 0;
                    printf("\nExiting from the program\n");
                    break;
            default: printf("\nPlease enter valid choice\n");
        }
     }
}
```