LINEAR QUEUE

#include<stdio.h>

#include<stdlib.h>

#define MAX 50

void insert();

void delete();

void display();

int rear=-1;

int front=-1;

int stack[MAX];

int main()

{

    int choice;

    while(1)

    {

        printf("\n1.Insert\n");

        printf("2.Delete\n");

        printf("3.Display\n");

        printf("4.Exit\n");

        printf("\nEnter a choice:");

        scanf("%d",&choice);

        switch(choice)

        {

            case 1:insert();

                    break;

            case 2:delete();

                    break;

            case 3:display();

                    break;

            case 4:exit(1);

            default:printf("Invalid choice\n");

                    break;

        }

    }

}

void insert()

{

    int add\_item;

    if(rear==MAX-1)

    {

        printf("\nOverflow\n");

    }

    else

    {

        if(front==-1)

        front=0;

        printf("\nEnter number to insert:");

        scanf("%d",&add\_item);

        rear=rear+1;

        stack[rear]=add\_item;

    }

}

void delete()

{

    if(front==-1)

    {

        printf("\nUnderflow\n");

    }

    else

    {

        printf("Element deleted from queue is %d\n",stack[front]);

        front=front+1;

    }

}

void display()

{

    int i;

    if(front==-1)

    {

        printf("\nQueue is empty\n");

    }

    else

    {

        printf("\nQueue\n");

        for(i=front;i<=rear;i++)

        {

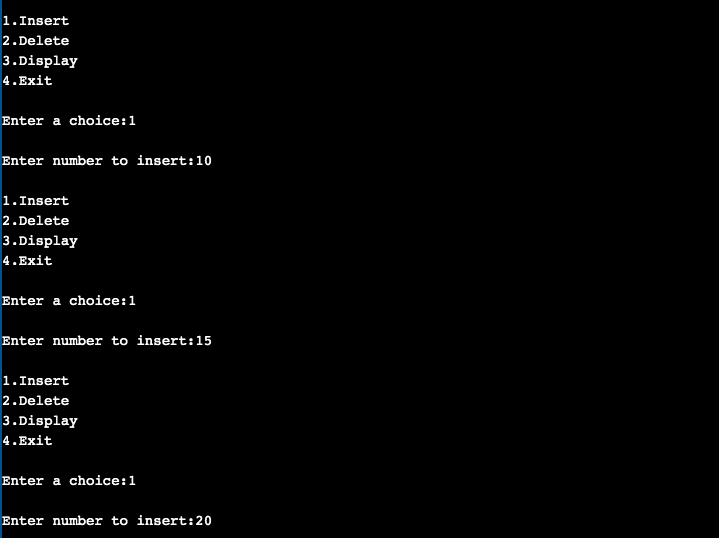
            printf("%d\t",stack[i]);

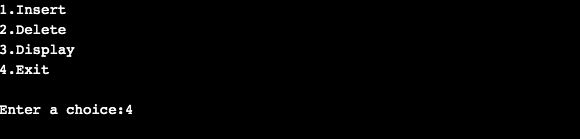
        }

    }

}

Output

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