#include<stdio.h>

#include<stdlib.h>

#define QUE\_SIZE 5

int item,front=0,rear=-1,q[10];

void insertrear()

{if(rear==QUE\_SIZE-1)

{

printf("queue overflow\n");

return;

}

rear=rear+1;

q[rear]=item;

}int deletefront()

{if (front>rear)

{front=0;

rear=-1;

return -1;

}return q[front++];

}void displayQ()

{int i;

if (front>rear)

{

printf("queue is empty\n");

return;

}

printf("contents of queue\n");

for(i=front;i<=rear;i++)

{

printf("%d\n",q[i]);

}}

int main()

{

int choice;

for(;;)

{

printf("...MENU...\n1:insertrear\n 2:deletefront\n 3:display\n 4:exit\n");

printf("enter the choice\n");

scanf("%d",&choice);

switch(choice)

{

case 1:printf("enter the item to be inserted\n");

scanf("%d",&item);

insertrear ();

break;

case 2:item=deletefront();

if(item==-1)

printf("queue is empty\n");

else

printf("item deleted=%d\n",item);

break;

case 3:displayQ();

break;

default:exit (0);

}

}

}