#include<iostream>

using namespace std;

class queue //class

{

private:

int q[10];

int s,e;

public:

queue()

{

s=-1;

e=-1;

}

////////////////////////////////////////

bool is\_full()

{

if(e==10)

return true;

else

return false;

}

/////////////////////////////////////

bool is\_empty()

{

if(e==-1)

return true;

else

return false;

}

////////////////////////////////

void status()

{

if(e==9)

cout<<"no space in stack"<<endl;

else

cout<<"Queue have space for enter the values\n"<<endl;

}

/////////////////////////////////////////////////////

void enqueue(int y)

{

if(is\_full())

{

cout<<"the queue is full"<<endl;

}

else

q[++e]=y;

cout<<"the value "<<y<<" is entered in the queue atindex"<<"["<<e<<"]"<<endl;

}

////////////////////////////////////////////////////

int dequeue()

{

if(is\_empty())

{

cout<<"the queue is empty"<<endl;

}

else

{

/\*int z;

z=q[e--];

return z;\*/

cout<< q[e--]<<"is dequeue from index "<<"["<<e<<"]"; //error

return q[e--];

}

for(int i=0;i<e;i++)

{

q[i]=q[i+1];

}

}

///////////////////////////////////////////////////

void display()

{

for(int j=0;j<=e;j++)

cout<<q[j]<<"\t";

}

};

/////////////////////////////////////////////////////

void main()

{

queue c; //object

int d;

/////////////////////////////////////////////////////////

for(int f=0;f<=9;f++)

{

c.status();

cout<<"Enter the values in queue"<<endl;

int i;

cin>>i;

c.enqueue(i);

}

c.status();

//////////////////////////////////////////////////////////////

//c.enqueue(10);

//c.status();

//c.enqueue(20);

//c.status();

//c.enqueue(30);

//c.status();

//c.enqueue(40); //this process can be use if for loop comment

//c.status();

//c.enqueue(50);

//c.status();

//c.enqueue(60);

//c.status();

//c.enqueue(70);

//c.status();

//c.enqueue(80);

//c.status();

//c.enqueue(90);

//c.status();

//c.enqueue(100);

//c.status();

///////////////////////////////////////////////////////////

c.status();

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

cout<<c.dequeue()<<endl;

c.display();

system("pause");

}