#include<iostream>

using namespace std;

class queue

{

private:

int q[5];

int s,e;

public:

queue()

{

s=-1;

e=-1;

}

bool is\_full()

{

if(e==5)

return true;

else

return false;

}

bool is\_empty()

{

if(e==-1)

return true;

else

return false;

}

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 at index"<<"["<<e<<"]"<<endl;

}

}

int dequeue()

{

if(is\_empty())

{

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

}

else

{

return q[e--];

}

}

void display()

{

cout<<"remaining values are"<<endl;

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

cout<<q[j]<<endl;

}

};

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

void main()

{

int ch;

queue q1;

while( 1)

{

cout<<"\n1.INSERT 2.DELETE 3.DISPLAY 4.EXIT\nEnter choice"<<endl;

cin>>ch;

switch(ch)

{

case 1:

cout<<"enter element"<<endl;

cin>>ch;

q1.enqueue(ch);

break;

case 2:

q1.dequeue();

break;

case 3:

q1.display();

break;

case 4:

exit(0);

}

}

system("pause");

}