#include<iostream>

using namespace std;

struct item {

string name;

int id;

int priority;

};

item pr[100000];

int size = -1;

void enqueue()

{

size++;

int value,n;

string name;

cout<<"Enter name :";

cin>>name;

pr[size].name=name;

cout<<"Enter id:";

cin>>value;

pr[size].id = value;

cout<<"1.Serious\n2.Non-serious\n3.Checkup\n";

cout<<"Enter choice";

cin>>n;

switch(n)

{

case 1:

pr[size].priority=3;

break;

case 2:

pr[size].priority=2;

break;

case 3:

pr[size].priority=1;

break;

}

}

void dequeue()

{

int ind = -1;

for (int i = ind; i < size; i++)

{

pr[i] = pr[i + 1];

}

size--;

}

int main()

{

int n,ind;

cout<<"Enter number of paitents:";

cin>>n;

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

{

enqueue();

}

cout<<"Serious paitents:"<<endl;

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

{

if(pr[i].priority==3)

cout << "Name:"<<pr[i].name << endl<<"Id:"<<pr[i].id<<endl;

}

cout<<"Non-serious paitents:"<<endl;

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

{

if(pr[i].priority==2)

cout << "Name:"<<pr[i].name << endl<<"Id:"<<pr[i].id<<endl;

}

cout<<"Checkup paitents:"<<endl;

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

{

if(pr[i].priority==1)

cout << "Name:"<<pr[i].name << endl<<"Id:"<<pr[i].id<<endl;

}

return 0;

}