program BASA;

{$APPTYPE CONSOLE}

uses

SysUtils;

type

PTList=^TList;

TList=record

Number:string;

Surname:string;

Adress:string;

Next: PTList;

end;

var

First, Addr\_current, Q: PTList;

N : integer;

i: integer;

/// OUTPUT ABONENTS, WHOSE NUMBERS START WITH 5 ///

procedure Print\_5(Head: PTList);

var

Current: PTList;

check: boolean;

begin

check:=false;

Current:=Head;

while Current^.Next<>nil do

begin

Current:=Current^.Next;

if Current^.Number[1]='5' then

begin

Writeln(Current^.Surname);

check:= true;

end;

end;

if check=false then writeln('Not found.');

end;

/// OUTPUT ALL ABONENTS ///

procedure Print(Head: PTList);

var

Current: PTList;

begin

Current:=Head;

while Current^.Next<>nil do

begin

Current:=Current^.Next;

Writeln(Current^.Surname,' ',Current^.Number,' ',Current^.Adress);

end;

end;

begin

writeln('Enter number of elements: ');

readln(N);

New(First);

Addr\_current:=First;

Addr\_current^.next:=nil;

for i:=1 to N do

begin

//// CREATE NEW ELEMENT////

New(Q);

Write('Enter ',i,' surname: ');

Readln(Q^.Surname);

Write('Enter ',i,' number: ');

Readln(Q^.Number);

Write('Enter ',i,' adress: ');

Readln(Q^.Adress);

Addr\_current:=First;

/// SEARCH FOR A PLACE ///

while (Addr\_current^.Next<>nil) and (Addr\_current^.Next^.Surname<Q^.Surname) do

begin

Addr\_current:=Addr\_current^.Next;

end;

Q^.Next:=Addr\_current^.Next;

Addr\_current^.Next:=Q;

end;

writeln('All abonents: ');

Print(First);

writeln;

writeln('All abonents, whose numbers start with 5: ');

Print\_5(First);

readln;

end.