

Program Binary\_Search;

Uses Crt;

Type

Data = Array[1..10] of Integer;

Var

A : Data;

i, j : Integer;

N1, X1, IX1 : Integer;

Procedure CariBinarySearch(L:Data; N : Integer; Var IX:Integer);

Var

la, lb : Integer;

K : Integer;

ketemu : Boolean;

Begin

la:=1;

lb:=N;

ketemu:=false;

while (not ketemu) and (la<=lb) do

Begin

k:=(la+lb)div 2;

if (L[k]=IX) then

ketemu:=true

else

If (L[k] < IX) then

l:=k+1

else

lb:=k-1;

End;

If (ketemu) then

Writeln(' => Berda di urutan ke-',k)

else

Writeln(' => Data Tidak ada');

End;

Begin

Clrscr;

writeln('\*\*PROGRAM BINNARY SEARCH\*\*');writeln(' ');

Write(' Jumlah Data : ');Readln(N1);

writeln(' Mulai masukkan data');

For i:=1 to N1 do

Begin

Write(' Data ke-',i,' = ');Readln(A[i]);

end;

writeln(' ');

Write('Data berapa yang dicari : ');Readln(IX1);

CariBinarySearch(A,N1,IX1);

writeln('=====');

writeln(' TERIMAKASIH!');

writeln('=====');

Readln;

End.