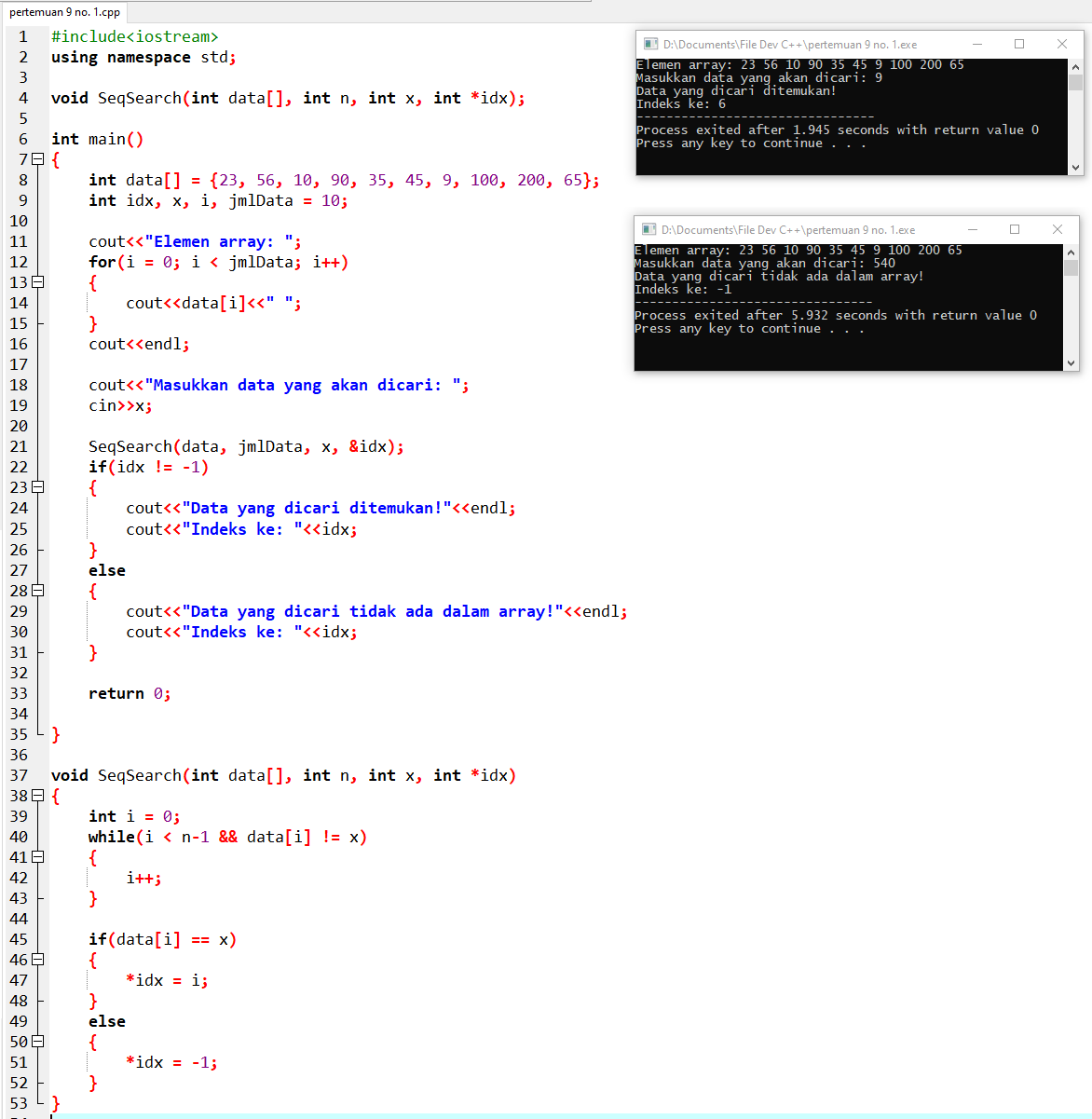
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Kelas : 02TPLP023  
Tugas : Algoritma II – Pertemuan 9



Source code:

#include<iostream>

using namespace std;

void SeqSearch(int data[], int n, int x, int \*idx);

int main()

{

int data[] = {23, 56, 10, 90, 35, 45, 9, 100, 200, 65};

int idx, x, i, jmlData = 10;

cout<<"Elemen array: ";

for(i = 0; i < jmlData; i++)

{

cout<<data[i]<<" ";

}

cout<<endl;

cout<<"Masukkan data yang akan dicari: ";

cin>>x;

SeqSearch(data, jmlData, x, &idx);

if(idx != -1)

{

cout<<"Data yang dicari ditemukan!"<<endl;

cout<<"Indeks ke: "<<idx;

}

else

{

cout<<"Data yang dicari tidak ada dalam array!"<<endl;

cout<<"Indeks ke: "<<idx;

}

return 0;

}

void SeqSearch(int data[], int n, int x, int \*idx)

{

int i = 0;

while(i < n-1 && data[i] != x)

{

i++;

}

if(data[i] == x)

{

\*idx = i;

}

else

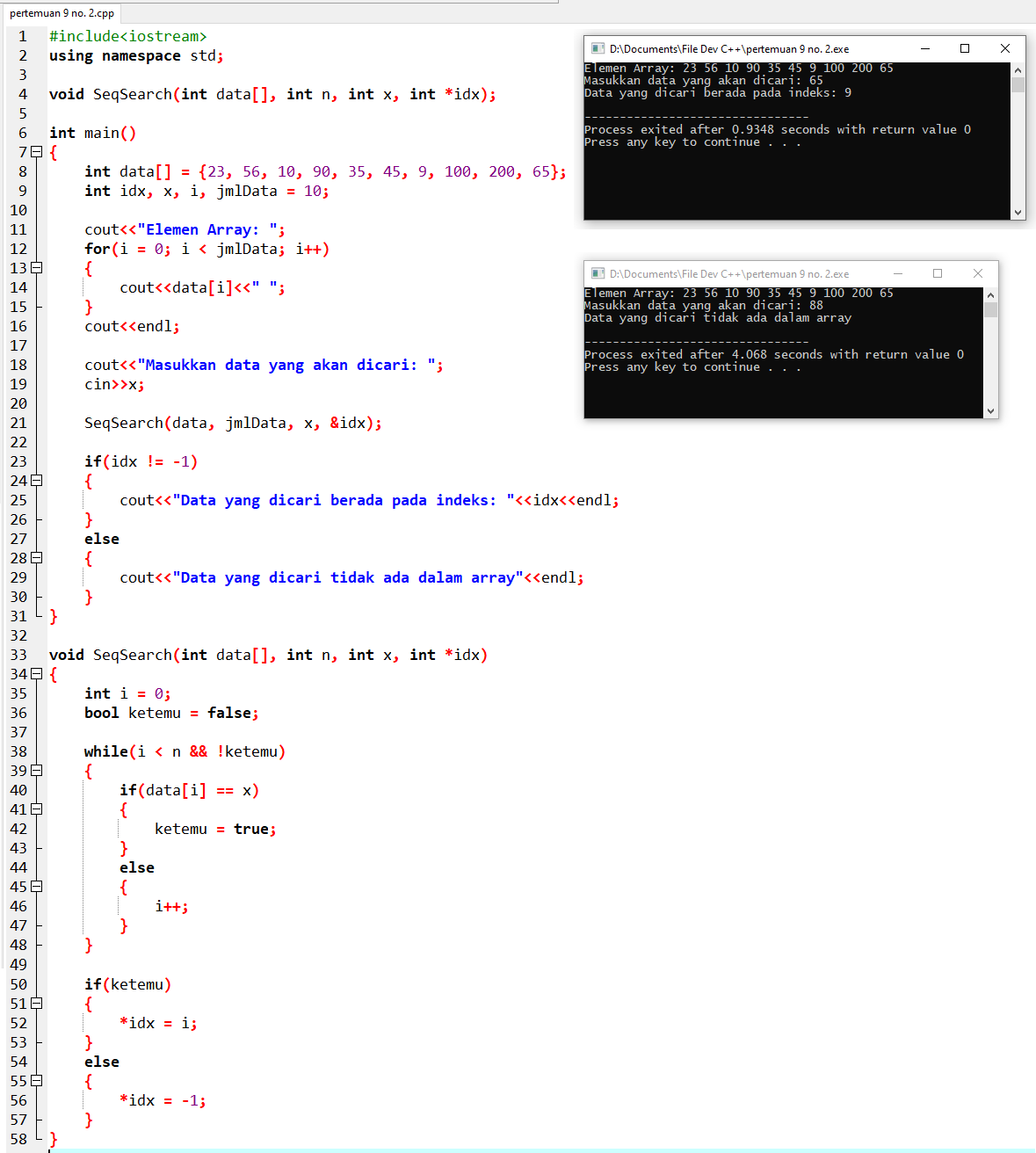
{

\*idx = -1;

}

}





Source Code:

#include<iostream>

using namespace std;

void SeqSearch(int data[], int n, int x, int \*idx);

int main()

{

int data[] = {23, 56, 10, 90, 35, 45, 9, 100, 200, 65};

int idx, x, i, jmlData = 10;

cout<<"Elemen Array: ";

for(i = 0; i < jmlData; i++)

{

cout<<data[i]<<" ";

}

cout<<endl;

cout<<"Masukkan data yang akan dicari: ";

cin>>x;

SeqSearch(data, jmlData, x, &idx);

if(idx != -1)

{

cout<<"Data yang dicari berada pada indeks: "<<idx<<endl;

}

else

{

cout<<"Data yang dicari tidak ada dalam array"<<endl;

}

}

void SeqSearch(int data[], int n, int x, int \*idx)

{

int i = 0;

bool ketemu = false;

while(i < n && !ketemu)

{

if(data[i] == x)

{

ketemu = true;

}

else

{

i++;

}

}

if(ketemu)

{

\*idx = i;

}

else

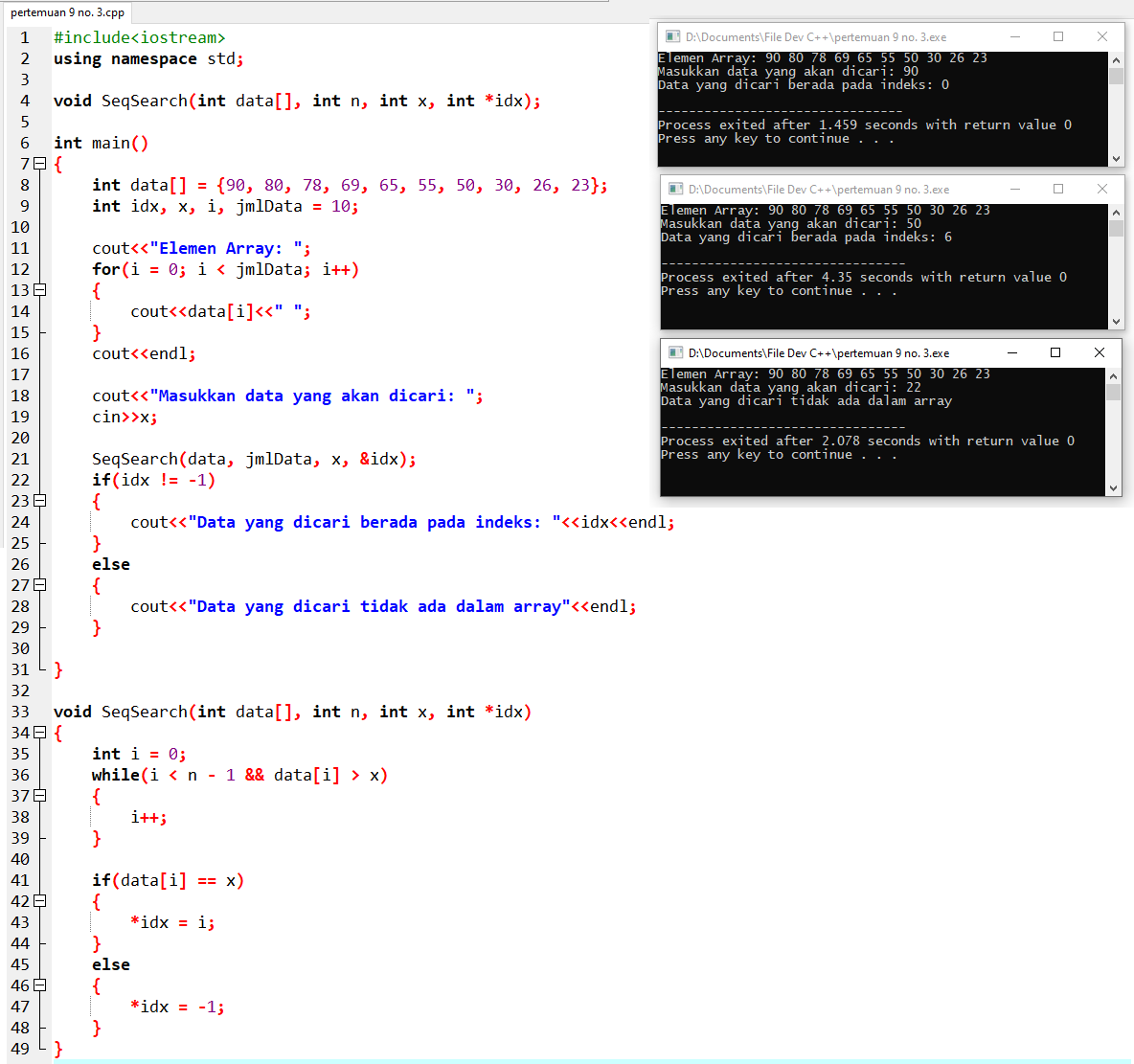
{

\*idx = -1;

}

}





Source Code:

#include<iostream>

using namespace std;

void SeqSearch(int data[], int n, int x, int \*idx);

int main()

{

int data[] = {90, 80, 78, 69, 65, 55, 50, 30, 26, 23};

int idx, x, i, jmlData = 10;

cout<<"Elemen Array: ";

for(i = 0; i < jmlData; i++)

{

cout<<data[i]<<" ";

}

cout<<endl;

cout<<"Masukkan data yang akan dicari: ";

cin>>x;

SeqSearch(data, jmlData, x, &idx);

if(idx != -1)

{

cout<<"Data yang dicari berada pada indeks: "<<idx<<endl;

}

else

{

cout<<"Data yang dicari tidak ada dalam array"<<endl;

}

}

void SeqSearch(int data[], int n, int x, int \*idx)

{

int i = 0;

while(i < n - 1 && data[i] > x)

{

i++;

}

if(data[i] == x)

{

\*idx = i;

}

else

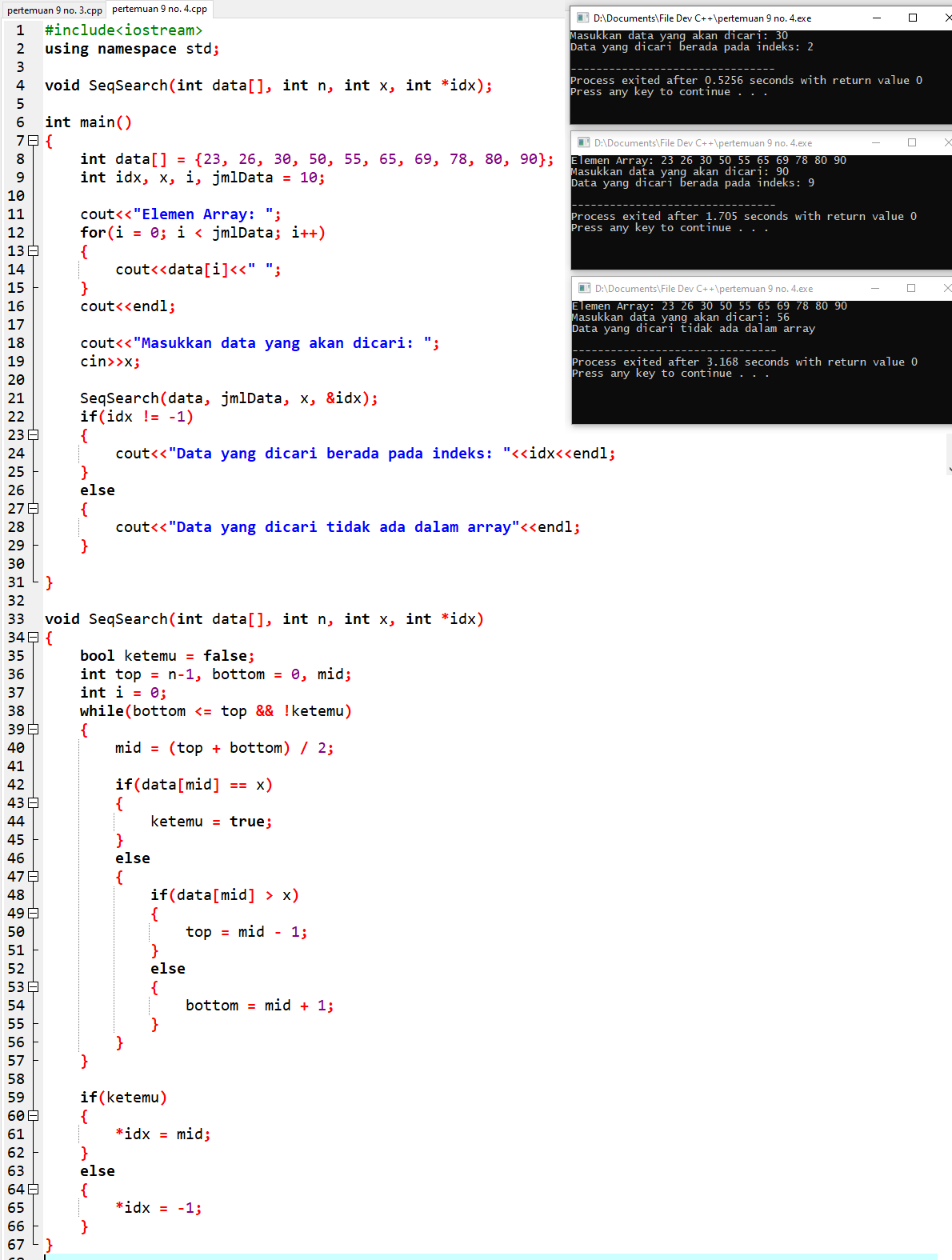
{

\*idx = -1;

}

}





Source Code:

#include<iostream>

using namespace std;

void SeqSearch(int data[], int n, int x, int \*idx);

int main()

{

int data[] = {23, 26, 30, 50, 55, 65, 69, 78, 80, 90};

int idx, x, i, jmlData = 10;

cout<<"Elemen Array: ";

for(i = 0; i < jmlData; i++)

{

cout<<data[i]<<" ";

}

cout<<endl;

cout<<"Masukkan data yang akan dicari: ";

cin>>x;

SeqSearch(data, jmlData, x, &idx);

if(idx != -1)

{

cout<<"Data yang dicari berada pada indeks: "<<idx<<endl;

}

else

{

cout<<"Data yang dicari tidak ada dalam array"<<endl;

}

}

void SeqSearch(int data[], int n, int x, int \*idx)

{

bool ketemu = false;

int top = n-1, bottom = 0, mid;

int i = 0;

while(bottom <= top && !ketemu)

{

mid = (top + bottom) / 2;

if(data[mid] == x)

{

ketemu = true;

}

else

{

if(data[mid] > x)

{

top = mid - 1;

}

else

{

bottom = mid + 1;

}

}

}

if(ketemu)

{

\*idx = mid;

}

else

{

\*idx = -1;

}

}