

Nama : Muhammad Adhitya Pratama

NIM : 2100018481

Algoritma :

Nama : Muhammad Adhitya Pratama
NIM: 2100018481

Algoritma Menghubungkan 2 array 3x3 menjadi array 1 dimensi

Deklarasi : $\text{int } a[3][3], b[3][3], c[18]$

$\text{int } i, j, k = 0, n = 18;$

Input : $\text{for } (i=0; i<3; i++) \{$
 $\text{for } (j=0; j<3; j++) \{$
 Masukkan data ke- $\ll i+1 \ll "$, $\ll j+1;$
 $\text{cin} \gg a[i][j];$

 }
}

Proses : Menggabungkan array 2 dimensi menjadi 1

$\text{for } (i=0; i<3; i++) \{$
 $\text{for } (j=0; j<3; j++) \{$
 $c[k] = a[i][j];$
 $k++;$

 }
}

$\text{for } (i=0; i<3; i++) \{$
 $\text{for } (j=0; j<3; j++) \{$
 $c[k] = b[i][j];$
 $k++;$

 }
}

Nama : Muhammad Adhitya P.

Nim: 2100018481

Proses : Sort

```
for (i = 1; i < n; i++) {  
    for (j = n - 1; j >= i; j--) {  
        if (c[j] < c[j - 1]) {  
            t = c[j - 1];  
            c[j - 1] = c[j];  
            c[j] = t;  
        }  
    }  
}
```

Output : Cout << "array yg telah disorting" << endl;
for (i = 0; i < n; i++) {
 Cout << c[i] << " ";

The screenshot shows a C++ IDE with the following components:

- File Path:** C:\Users\ASUS\Documents\Tugas Kulliah\Semester 2\Praktikum Alpro\Praktikum 8\Pretest\PRE8.cpp - Dev-C++ 5.11
- Compiler:** g++ (gcc 4.9.2 64-bit Release)
- Code:**

```
1 #include <iostream>
2 using namespace std;
3
4 int main(){
5     int a[3][3], b[3][3], c[18];
6     int i, j, k=0, n=18;
7     cout << "masukkan data array 1 : "<< endl;
8     for (i=0; i<3; i++){
9         for (j=0; j<3; j++){
10             cout << "masukkan data ke- "<< i+1<< ", "<< j+1<< " = ";
11             cin >> a[i][j];
12         }
13     }
14     cout << "masukkan data array 2 : "<< endl;
15     for (i=0; i<3; i++){
16         for (j=0; j<3; j++){
17             cout << "masukkan data ke- "<< i+1<< ", "<< j+1<< " = ";
18             cin >> b[i][j];
19         }
20     }
21     cout << endl;
22     cout << "Array 1: "<< endl;
23     for (i=0; i<3; i++){
24         for (j=0; j<3; j++){
25             cout << a[i][j]<< " ";
26         }
27         cout << endl;
28     }
29     cout << "Array 2: "<< endl;
30     for (i=0; i<3; i++){
31         for (j=0; j<3; j++){
32             cout << b[i][j]<< " ";
```
- Status Bar:** Line: 70, Col: 1, Sel: 0, Lines: 70, Length: 1255, Insert, Done parsing in 0,016 seconds
- Taskbar:** Shows the Windows taskbar with the Start button, search bar, and several application icons. The system clock indicates 13:12 on 08/06/2022, with weather information for Hujan (31°C).

The screenshot displays a C++ development environment with the following components:

- Menu Bar:** File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help.
- Toolbar:** Includes icons for file operations (open, save, print), execution (run, debug), and formatting (auto-format, style).
- Compiler:** TDM-GCC 4.9.2 64-bit Release.
- File Explorer:** Shows the project structure with files: keg71.cpp, keg72.cpp, and pretest8.cpp.
- Code Editor:** Contains the following C++ code:

```
31     for(j=0;j<3;j++){
32         cout <<b[i][j]<<" ";
33     }
34     cout << endl;
35 }
36 cout<< endl;
37 for (i=0;i<3;i++){
38     for(j=0;j<3;j++){
39         c[k]=a[i][j];
40         k++;
41     }
42 }
43 for (i=0;i<3;i++){
44     for(j=0;j<3;j++){
45         c[k]=b[i][j];
46         k++;
47     }
48 }
49 cout << "array yang telah digabungkan "<<endl;
50 for(i=0;i<n;i++){
51     cout << c[i]<<" , ";
52 }
53 for (int i=1; i<n;i++){
54     for (int j=n-1; j>=1;j--){
55         if (c[j]<c[j-1]){
56             int t;
57             t=c[j-1];
58             c[j-1]=c[j];
59             c[j]=t;
60         }
61     }
62 }
```
- Status Bar:** Shows "Line: 70", "Col: 1", "Sel: 0", "Lines: 70", "Length: 1255", "Insert", and "Done parsing in 0,016 seconds".
- System Tray:** Displays system icons including network, volume, and temperature (31°C Hujan), along with the date and time (13:12, 08/06/2022).

```
C:\Users\ASUS\Documents\Tugas Kuliah\Semester 2\Praktikum Alpro\Praktikum 8\Pretest\PRE8.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
keg7.1.cpp keg7.2.cpp pretest8.cpp
39     c[k]=a[i][j];
40     k++;
41 }
42 }
43 for (i=0;i<3;i++){
44     for (j=0;j<3;j++){
45         c[k]=b[i][j];
46         k++;
47     }
48 }
49 cout << "array yang telah digabungkan "<<endl;
50 for (i=0;i<n;i++){
51     cout << c[i]<<" , ";
52 }
53 for (int i=1; i<n;i++){
54     for (int j=n-1; j>=i;j--){
55         if (c[j]<c[j-1]){
56             int t;
57             t=c[j-1];
58             c[j-1]=c[j];
59             c[j]=t;
60         }
61     }
62 }
63 cout<<endl;
64 cout <<"Array setelah di sorting"<<endl;
65 for (i=0;i<n;i++){
66     cout << c[i]<<" , ";
67 }
68 }
69 }
70 }
Compiler Resources Compile Log Debug Find Results
Line: 70 Col: 1 Sek: 0 Lines: 70 Length: 1255 Insert Done parsing in 0,016 seconds
Type here to search 31°C Hujan 13:13 08/06/2022
```

```
C:\Users\ASUS\Documents\Tugas Kuliah\Semester 2\Praktikum Alpro\Praktikum 8\Pretest\pretest8.exe
masukkan data array 1 :
masukkan data ke- 1, 1 = 2
masukkan data ke- 1, 2 = 8
masukkan data ke- 1, 3 = 6
masukkan data ke- 2, 1 = 4
masukkan data ke- 2, 2 = 2
masukkan data ke- 2, 3 = 9
masukkan data ke- 3, 1 = 3
masukkan data ke- 3, 2 = 5
masukkan data ke- 3, 3 = 1
masukkan data array 2 :
masukkan data ke- 1, 1 = 3
masukkan data ke- 1, 2 = 6
masukkan data ke- 1, 3 = 8
masukkan data ke- 2, 1 = 9
masukkan data ke- 2, 2 = 7
masukkan data ke- 2, 3 = 2
masukkan data ke- 3, 1 = 1
masukkan data ke- 3, 2 = 5
masukkan data ke- 3, 3 = 7

Array 1:
2 8 6
4 2 9
3 5 1
Array 2:
3 6 8
9 7 2
1 5 7

array yang telah digabungkan
2 , 8 , 6 , 4 , 2 , 9 , 3 , 5 , 1 , 3 , 6 , 8 , 9 , 7 , 2 , 1 , 5 , 7 ,
Array setelah di sorting
1 , 1 , 2 , 2 , 2 , 3 , 3 , 4 , 5 , 5 , 6 , 6 , 7 , 7 , 8 , 8 , 9 , 9 ,
-----
Process exited after 23.18 seconds with return value 0
Press any key to continue . . .
```