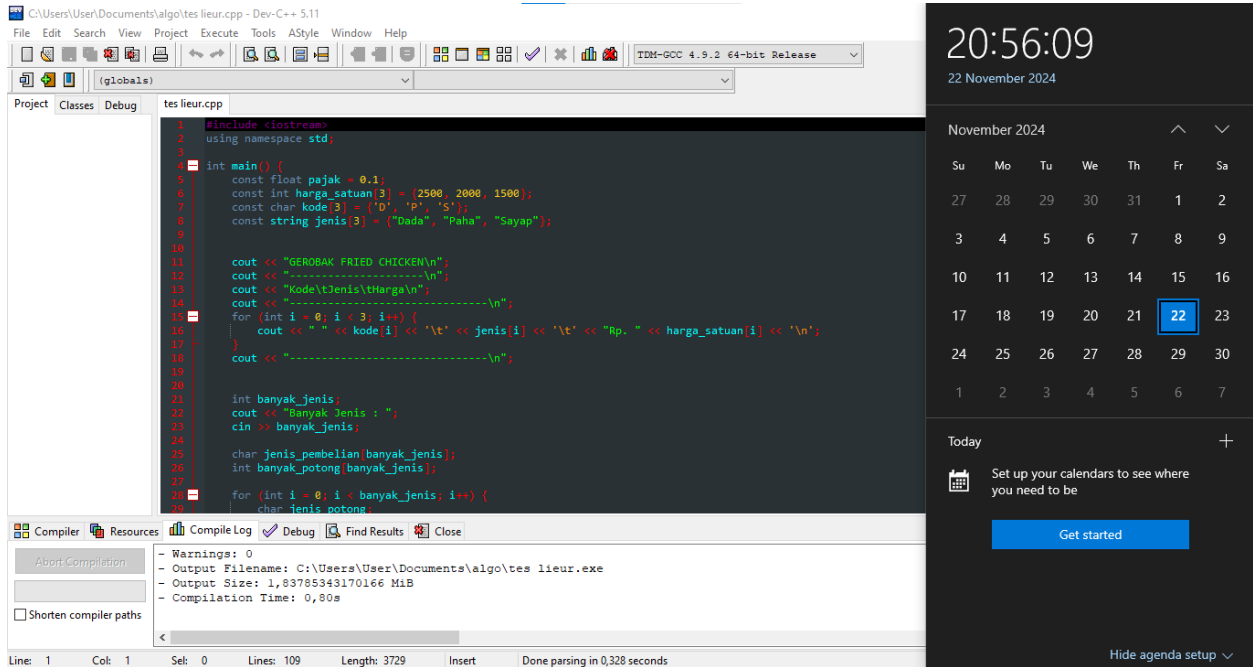


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Matkul : Algoritma Pemrograman Struktur Data



The screenshot shows a Dev-C++ IDE window titled "C:\Users\User\Documents\algo\tes lieur.cpp - Dev-C++ 5.11". The code is a C++ program for a menu-driven application. It includes headers, defines constants for prices and codes, and uses cout and cin for user interaction. The program is compiled and executed, showing the output in the console window.

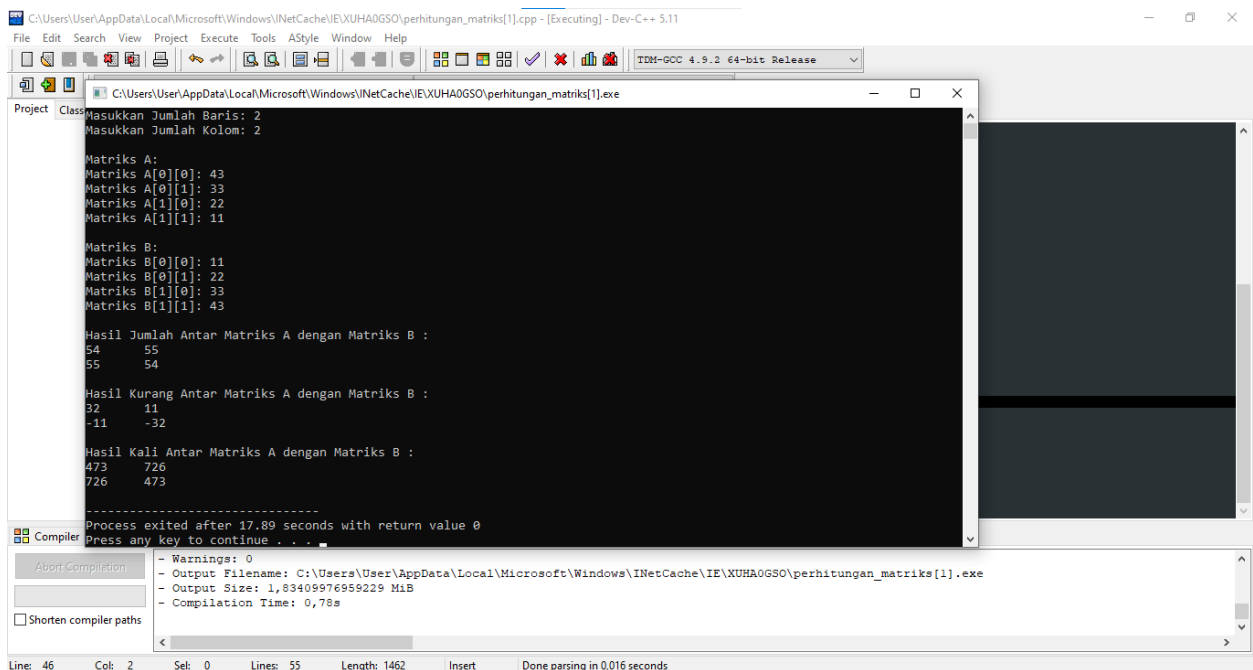
```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     const float pajak = 0.1;
6     const int harga_satuan[3] = {2500, 2000, 1500};
7     const char kode[3] = {'D', 'P', 'S'};
8     const string jenis[3] = {"Dada", "Paha", "Sayap"};
9
10    cout << "GERBOK FRIED CHICKEN\n";
11    cout << "-----\n";
12    cout << "Kode\tJenis\tHarga\n";
13    cout << "-----\n";
14    for (int i = 0; i < 3; i++) {
15        cout << " " << kode[i] << "\t" << jenis[i] << "\t" << "Rp. " << harga_satuan[i] << "\n";
16    }
17    cout << "-----\n";
18
19    int banyak_jenis;
20    cout << "Banyak Jenis : ";
21    cin >> banyak_jenis;
22
23    char jenis_pembelian(banyak_jenis);
24    int banyak_potong(banyak_jenis);
25
26    for (int i = 0; i < banyak_jenis; i++) {
27        char jenis_potong;
```

The output window shows the following text:

```
- Warnings: 0
- Output Filename: C:\Users\User\Documents\algo\tes lieur.exe
- Output Size: 1,83785343170166 MiB
- Compilation Time: 0,80s
```

The status bar at the bottom indicates: Line: 1, Col: 1, Sel: 0, Lines: 109, Length: 3729, Insert, Done parsing in 0,328 seconds.

Matriks



The screenshot shows a Dev-C++ IDE window titled "C:\Users\User\AppData\Local\Microsoft\Windows\NetCache\IE\XUHA0GSO\perhitungan_matriks[1].cpp - [Executing] - Dev-C++ 5.11". The code is a C++ program for matrix operations. It prompts the user for the number of rows and columns, then displays two matrices A and B, and calculates their sum, difference, and product. The program is compiled and executed, showing the output in the console window.

```
Masukkan Jumlah Baris: 2
Masukkan Jumlah Kolom: 2

Matriks A:
Matriks A[0][0]: 43
Matriks A[0][1]: 33
Matriks A[1][0]: 22
Matriks A[1][1]: 11

Matriks B:
Matriks B[0][0]: 11
Matriks B[0][1]: 22
Matriks B[1][0]: 33
Matriks B[1][1]: 43

Hasil Jumlah Antar Matriks A dengan Matriks B :
54 55
55 54

Hasil Kurang Antar Matriks A dengan Matriks B :
32 11
-11 -32

Hasil Kali Antar Matriks A dengan Matriks B :
473 726
726 473

-----
Process exited after 17.89 seconds with return value 0
Press any key to continue . . .
```

The output window shows the following text:

```
- Warnings: 0
- Output Filename: C:\Users\User\AppData\Local\Microsoft\Windows\NetCache\IE\XUHA0GSO\perhitungan_matriks[1].exe
- Output Size: 1,83409976959229 MiB
- Compilation Time: 0,78s
```

The status bar at the bottom indicates: Line: 46, Col: 2, Sel: 0, Lines: 55, Length: 1462, Insert, Done parsing in 0,016 seconds.

```

#include <iostream>
using namespace std;

int main() {
    int baris, kolom, a, b;

    cout << "Program Perhitungan Matriks" << endl;
    cout << "Masukkan Jumlah Baris: ";
    cin >> baris;
    cout << "Masukkan Jumlah Kolom: ";
    cin >> kolom;

    int MatriksA[baris][kolom], MatriksB[baris][kolom];

    cout << "\nMatriks A:" << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << "Matriks A[" << a << "][" << b << "]: ";
            cin >> MatriksA[a][b];
        }
    }

    cout << "\nMatriks B:" << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << "Matriks B[" << a << "][" << b << "]: ";
            cin >> MatriksB[a][b];
        }
    }

    cout << "\nHasil Jumlah Antar Matriks A dengan Matriks B : " << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << MatriksA[a][b] + MatriksB[a][b] << "\t";
        }
        cout << endl;
    }

    cout << "\nHasil Kurang Antar Matriks A dengan Matriks B : " << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << MatriksA[a][b] - MatriksB[a][b] << "\t";
        }
    }
}

```

```

    cout << "\nHasil Kurang Antar Matriks A dengan Matriks B : " << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << MatriksA[a][b] - MatriksB[a][b] << "\t";
        }
        cout << endl;
    }

    cout << "\nHasil Kali Antar Matriks A dengan Matriks B : " << endl;
    for (a = 0; a < baris; a++) {
        for (b = 0; b < kolom; b++) {
            cout << MatriksA[a][b] * MatriksB[a][b] << "\t";
        }
        cout << endl;
    }
}

```

Gerobak Fried Chicken

```
const int harga_satuan[3] = {2500, 2000, 1500};
const char kode[3] = {'D', 'P', 'S'};
const string jenis[3] = {"Dada", "Paha", "Sayap"};

cout << "GEROBAK FRIED CHICKEN\n";
cout << "-----\n";
cout << "Kode\tJenis\tHarga\n";
cout << "-----\n";

for (int i = 0; i < 3; i++) {
    cout << " " << kode[i] << '\t' << jenis[i] << '\t' << "Rp. " << harga_satuan[i] << '\n';
}
cout << "-----\n";

int banyak_jenis;
cout << "Banyak Jenis : ";
cin >> banyak_jenis;

char jenis_pembelian[banyak_jenis];
int banyak_potong[banyak_jenis];

for (int i = 0; i < banyak_jenis; i++) {
    char jenis_potong;
    bool valid = true;

    while (valid) {
        cout << "\nJenis Ke - " << i + 1 << '\n';
        cout << "Jenis Potong [D/P/S] : ";
        cin >> jenis_potong;
    }
}
```

GEROBAK FRIED CHICKEN

Kode	Jenis	Harga
D	Dada	Rp. 2500
P	Paha	Rp. 2000
S	Sayap	Rp. 1500

Banyak Jenis : 3

Jenis Ke - 1
Jenis Potong [D/P/S] : d
Banyak Potong : 2

Jenis Ke - 2
Jenis Potong [D/P/S] : p
Banyak Potong : 3

Jenis Ke - 3
Jenis Potong [D/P/S] : s
Banyak Potong : 1

GEROBAK FRIED CHICKEN

No.	Jenis Potong	Harga Satuan	Banyak Beli	Jumlah	Harga
1.	Dada	Rp. 2500	2		Rp. 5000
2.	Paha	Rp. 2000	3		Rp. 6000
3.	Sayap	Rp. 1500	1		Rp. 1500
Jumlah Bayar					Rp. 12500
Pajak 10%					Rp. 1250
Total Bayar					Rp. 13750

Process exited after 10.97 seconds with return value 0
Press any key to continue . . .

```
#include <iostream>
using namespace std;

int main() {
    const float pajak = 0.1;
    const int harga_satuan[3] = {2500, 2000, 1500};
    const char kode[3] = {'D', 'P', 'S'};
    const string jenis[3] = {"Dada", "Paha", "Sayap"};

    cout << "GEROBAK FRIED CHICKEN\n";
    cout << "-----\n";
    cout << "Kode\tJenis\tHarga\n";
    cout << "-----\n";

    for (int i = 0; i < 3; i++) {
        cout << " " << kode[i] << '\t' << jenis[i] << '\t' << "Rp. " << harga_satuan[i] << '\n';
    }
    cout << "-----\n";

    int banyak_jenis;
    cout << "Banyak Jenis : ";
    cin >> banyak_jenis;

    char jenis_pembelian[banyak_jenis];
    int banyak_potong[banyak_jenis];

    for (int i = 0; i < banyak_jenis; i++) {
        char jenis_potong;
        bool valid = false;

        while (!valid) {
            cout << "\nJenis Ke - " << i + 1 << '\n';
            cout << "Jenis Potong [D/P/S] : ";
            cin >> jenis_potong;
        }
    }
}
```

```

        cout << "\nJenis Ke - " << i + 1 << '\n';
        cout << "Jenis Potong [D/P/S] : ";
        cin >> jenis_potong;

        switch (jenis_potong) {
            case 'D':
            case 'd':
                jenis_pembelian[i] = 'D';
                valid = true;
                break;
            case 'P':
            case 'p':
                jenis_pembelian[i] = 'P';
                valid = true;
                break;
            case 'S':
            case 's':
                jenis_pembelian[i] = 'S';
                valid = true;
                break;
            default:
                cout << "Kode yang Anda masukan invalid. Silakan coba lagi.\n";
                break;
        }
    }

    cout << "Banyak Potong : ";
    cin >> banyak_potong[i];
}

```

```

int total_banyak_potong[3] = {0, 0, 0};
int total_harga_berdasarkan_jenis[3] = {0, 0, 0};
int total_bayar_tanpa_pajak = 0;

for (int i = 0; i < banyak_jenis; i++) {
    if (jenis_pembelian[i] == 'D') {
        total_banyak_potong[0] += banyak_potong[i];
    } else if (jenis_pembelian[i] == 'P') {
        total_banyak_potong[1] += banyak_potong[i];
    } else if (jenis_pembelian[i] == 'S') {
        total_banyak_potong[2] += banyak_potong[i];
    }
}

for (int i = 0; i < 3; i++) {
    total_harga_berdasarkan_jenis[i] = total_banyak_potong[i] * harga_satuan[i];
    total_bayar_tanpa_pajak += total_harga_berdasarkan_jenis[i];
}

float harga_pajak = total_bayar_tanpa_pajak * pajak;
float total_bayar_pake_pajak = total_bayar_tanpa_pajak + harga_pajak;

cout << "-----\n";
cout << "\t\tGEROBAK FRIED CHICKEN\n";
cout << "-----\n";
cout << "No.\tJenis\t\tHarga\tBanyak\tJumlah\n";
cout << "\tPotong\t\tSatuan\tBeli\tHarga\n";
cout << "-----\n";

```

```
for (int i = 0; i < 3; i++) {  
    if (total_banyak_potong[i] > 0) {  
        cout << i + 1 << ".\t" << jenis[i] << "\t\tRp. " << harga_satuan[i]  
        << "\t" << total_banyak_potong[i] << "\tRp. " << total_harga_berdasarkan_jenis[i] << '\n';  
    }  
  
    cout << "-----\n";  
    cout << "\t\t\tJumlah Bayar\tRp. " << total_bayar_tanpa_pajak << '\n';  
    cout << "\t\t\tPajak 10%\tRp. " << harga_pajak << '\n';  
    cout << "\t\t\tTotal Bayar\tRp. " << total_bayar_pake_pajak << '\n';  
    cout << "-----\n";  
  
    return 0;  
}
```