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**Kelas : Pemrograman Terstruktur A**

1. Mencari nilai 8 dalam array

No.	
1	#include <stdio.h>
2	#include <iostream>
3	#include <conio.h>
4	using namespace std;
5	int A[10] = {12,24,13,25,8,11,21,12,8,18};
6	int bil, a, b;
7	
8	void cari (int bil)
9	{
10	for (a = 0; a < 10; a++)
11	{
12	if (A[a] == bil)
13	{
14	cout << "Bilangan yang anda cari berada di indeks ke - " << a << endl;
15	break;
16	}
17	}
18	getch ();
19	}
20	
21	int main()
22	{
23	for (int i = 0; i < 10; i++)
24	{
25	cout << "Indeks - [" << i << "]" << " " << A[i] << endl;
26	}
27	cout << endl;
28	
29	cout << "Masukan bilangan yang akan dicari : ";
30	cin >> bil;
31	
32	cari (bil);
33	
34	for (a = 0; a < 10; a++)
35	{
36	if (A[a] != bil)
37	{
38	cout << "Bilangan yang dicari tidak terdaftar";
39	break;
40	}
41	}
42	return 0;
43	}

Output:

```
PS C:\Users\ASUS\.vscode\My Work> cd "c:\Users\ASUS\.vscode\My Work\" ; if ($?) { g++ 10elemen.cpp
-o 10elemen } ; if ($?) { .\10elemen }
Indeks - [0] 12
Indeks - [1] 24
Indeks - [2] 13
Indeks - [3] 25
Indeks - [4] 8
Indeks - [5] 11
Indeks - [6] 21
Indeks - [7] 12
Indeks - [8] 8
Indeks - [9] 18

Masukan bilangan yang akan dicari : 8
Bilangan yang anda cari berada di indeks ke - 4
█
```

## 2. Perkalian antar matriks

No.	
1	#include <iostream>
2	using namespace std;
3	int main()
4	{
5	int matriks[2][2], hasil[2][2];
6	int a, b, c;
7	
8	
9	cout << "Program Perkalian Matriks, silakan input elemen" << endl;
10	for (a=0;a<2;a++ )
11	{
12	for (b=0;b<2;b++)
13	{
14	cout << "A[" << a << "][" << b << "] = ";
15	cin >> matriks[a][b];
16	}
17	}
18	
19	cout << "Matriks A : " << endl;
20	
21	for (a=0;a<2;a++)
22	{
23	for (b=0;b<2;b++)
24	{
25	cout << matriks[a][b]<<" ";
26	}
27	cout << endl;
28	}

```

29
30     for (a=0;a<2;a++ )
31     {
32         hasil [a][b] = 0;
33         for (b=0;b<2;b++)
34         {
35             c = matriks[a][b]*5;
36             hasil[a][b] = c;
37         }
38     }
39
40     cout << "Hasil perkalian matriks dengan 5 : " << endl;
41
42     for (a=0;a<2;a++)
43     {
44         for (b=0;b<2;b++)
45         {
46             cout << hasil[a][b]<<" ";
47         }
48         cout << endl;
49     }
50
51     cout << endl;
52
53     return 0;
54 }

```

Output :

```

PS C:\Users\ASUS\.vscode\My Work> cd "c:\Users\ASUS\.vscode\My Work\" ; if ($?) { g++ matriks2d2.cpp -o matriks2d2 } ; if ($?) { .\matriks2d2 }
Program Perkalian Matriks, silakan input elemen
A[0][0] = 4
A[0][1] = 3
A[1][0] = 6
A[1][1] = 8
Matriks A :
4 3
6 8
Hasil perkalian matriks dengan 5 :
20 15
30 40

PS C:\Users\ASUS\.vscode\My Work>

```