



```
int[] prices = new int[10];  
or = {5, 6, 10, ...}
```

```
for (int i = 0; i < prices.length; i++)  
{  
    if (prices[i] == 7)  
        :  
    if (prices[i] % 3 == 0)
```

```
double n = 3.148;
```

```
int x = (int)n;
```

```
double s = x; //s will be 3.0
```

```
char c = 'A';
```

```
char d = (char)(c + 3);  
                  int
```

```
int n = 521;
```

```
String s = "" + n;
```

↑
empty string

```
"Hello"+n
```

```
"Hello521"
```

String s = "Hi there"
0 1 2 3 4 ...

```
char c = s.charAt(4);  
// c will contain 'h'
```

```

class Calc
public static int avg (int x, int y) {
    int result = (x+y)/2;
    return result;
}

```

in main

```

// ignore result
avg (5, 11);

```

```

// store result
int a = avg (5, 11),
S.o.pln(a);

```

```

// use the result in a computation
int b = avg (5, 11) * 20;
S.o.pln (avg (5, 11));

```

```

Calc c = new
Calc ();
c.avg (5, 11)

```

```
boolean[] data = new boolean[10000];  
for(int i=0; i< data.length; i++){  
    data[i]=true;  
}
```

&&, ||, !

int x = ...

if (x >= 20 && x <= 30) {

}

if (! (x >= 20 && x <= 30))

if (x < 20 || x > 30)

A	B	A && B	A B
T	T	T	T
T	F	F	T
F	T	F	T
F	F	F	F

A	!A
T	F
F	T

!A || B

A	B	!A	!A B
T	T	F	T
T	F	F	F
F	T	T	T
F	F	T	T