Table for multiplication

Enter the table size: 10

```
 1  2  3  4  5  6  7  8  9  10
 2  4  6  8 10 12 14 16 18  20
 3  6  9 12 15 18 21 24 27  30
 4  8 12 16 20 24 28 32 36  40
 5 10 15 20 25 30 35 40 45  50
 6 12 18 24 30 36 42 48 54  60
 7 14 21 28 35 42 49 56 63  70
 8 16 24 32 40 48 56 64 72  80
 9 18 27 36 45 54 63 72 81  90
10 20 30 40 50 60 70 80 90 100
```

Fix the code

```
#import tio*;

class multitable {{
  public static void Main(string args) {
    System.out.print("Enter the table size: );
    int j,size=Console.readInt();
    For(int i=1;i<=size;j++) {
      for(int j=1;i<=size;j++) {
        System.out.printout(i*j + " ");
        System.out.println();
      }
    }
  }
}
```

2 * 3 = 6

What about alignment?

Casting

```
byte a = 1;
byte b = 2;
byte c = a + b;
// compiler error: a and b are promoted to int

byte c = (byte)(a + b);
// compiles ok
```

Casting

Instead of:

```
c = (short) c + 2;
```

we can have:

```
c+=2;
```

Loops - simulation

```java
import tio.*;

class multitable {
  public static void main(String args[]) {
    System.out.print("Enter the table size: ");
    int size=Console.in.readInt();
    int j;
    for(int i=1;i<=size;i++) {
      for(j=1;j<=size;j++) {
        System.out.print(i*j + " ");
      }
      System.out.println();
    }
  }
}
```