



Core Java

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Generic programming

```
static void swap(Object x, Object y)
{
    Object t = x;
    x = y;
    y = t;
    Sysout ("x=" + x + ", y=" + y);
}
```

```
p.s.v. main(String[] args) {
    int i1 = 10, i2 = 20;
    swap(i1, i2);
    double d1 = 1.1, d2 = 2.2;
    swap(d1, d2);
    Person p1 = new ...(), p2 = new ...();
    swap(p1, p2);
    swap(p1, d2);
}
```

```
static <T> void swap(T x, T y)
{
    T t = x;
    x = y;
    y = t;
    Sysout ("x=" + x + ", y=" + y);
}
```

```
p.s.v. main(String[] args) {
    int i1 = 10, i2 = 20;
    swap(i1, i2);
    double d1 = 1.1, d2 = 2.2;
    swap(d1, d2);
    Person p1 = new ...(), p2 = new ...();
    swap(p1, p2);
    <Double> swap(p1, d2); // error
}
```

both args should be double





Thank you!

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