

Exercise: Swap

Exercise: Swap

Write a function `swap` that swaps the values of two `int`-variables.

Example:

```
int a = 5;
int b = 6;
// here comes your function call
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

a: 5

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

a: 5
b: 6

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

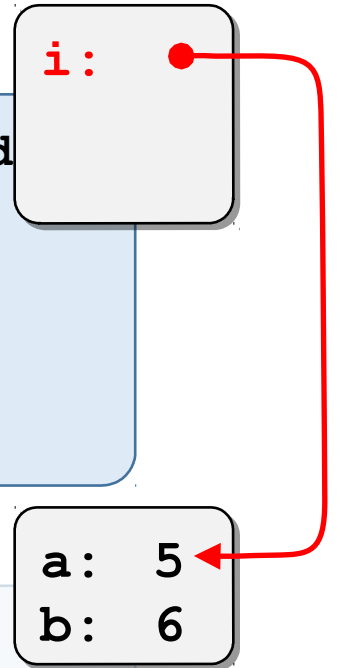
```
a: 5
b: 6
```

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

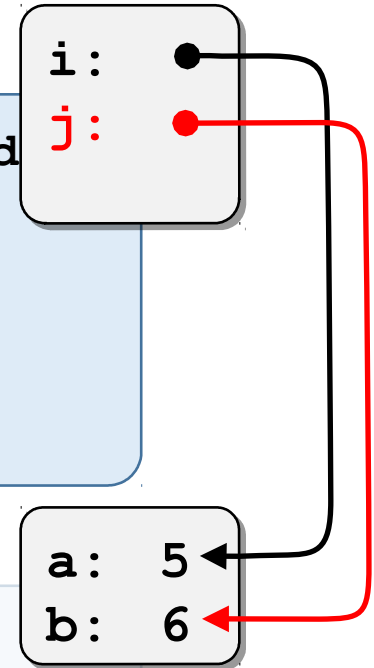


Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

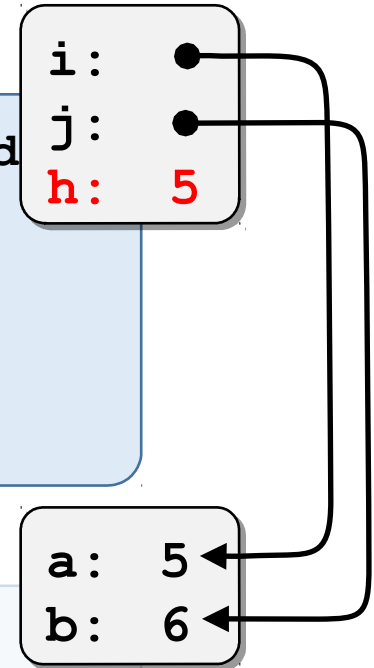


Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

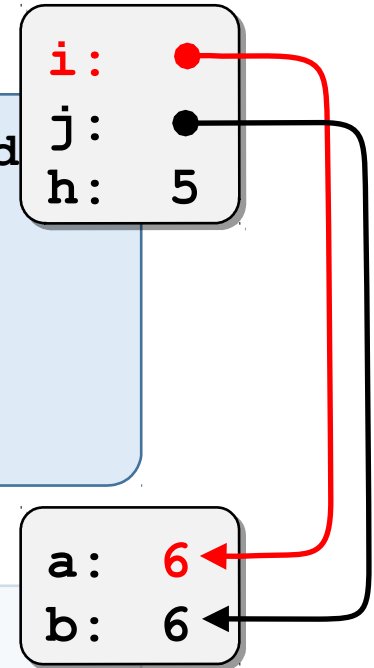


Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

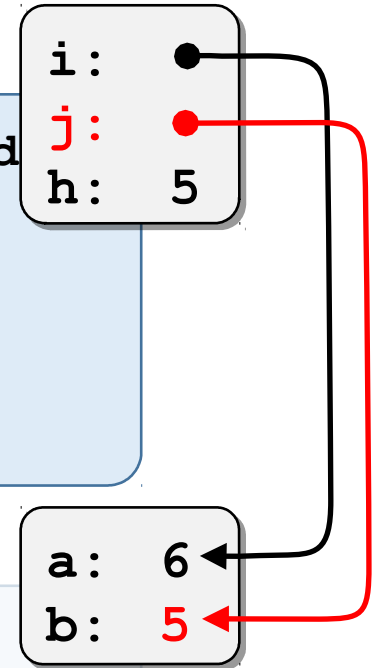


Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```



Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

```
a: 6
b: 5
```

Exercise: Swap

Solution:

```
// POST: the values of i and j are swapped
void swap (int& i, int& j) {
    const int h = i;
    i = j;
    j = h;
}
```

```
int a = 5;
int b = 6;
swap(a, b);
std::cout << a << "\n"; // outputs 6
std::cout << b << "\n"; // outputs 5
```

a: 6
b: 5