

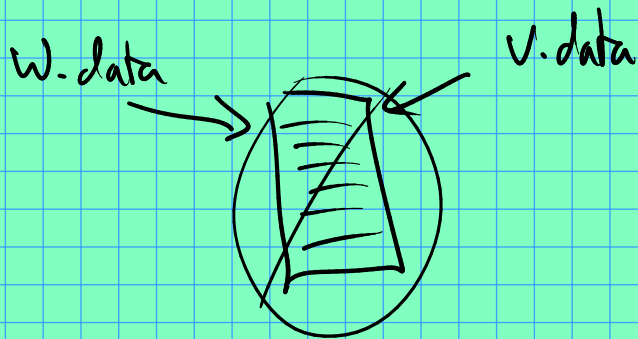
Why copy constructor??

```
vector::vector (const vector & v)
{
    size = v.size;
    capacity = v.capacity;
    data = v.data;
}
```

```
void f (vector v)
{
    :
}

int main ()
{
    vector w;
    f(w);
    // X-X w is deleted.
    w[93]; // crash?
}
```

← V goes out of scope, & destructor is called.



Similar problem for assignment operator:

```
void f (vector & v)
{
    vector T;
    :
    T = v;
} // T goes out of scope & deletes v's array.
```

$v = w;$

$6 - 2 - 1 = 3$

```

void towers(int n, int s, int e)
{
    if (n == 1) cout << s << " " << e;
    towers(n-1, s, 6-s-e);
    towers(1, s, e); // or just cout...
    towers(n-1, 6-s-e, e);
}

```

