Vectors & Arrays

V = | V[0] | V[1] | V[2] | V[3] | V[4] |

How to declare one?

~~Vector V;~~

vector is Not a datatype, but a machine for making datatypes. ("template")

vector<int> V; // OK ✓ V[i] has type int.

How to add something to V?

V.push_back(10); // push_back(V, 10);

// V = | 10 | (V[0]) front ... back

V.push_back(19); // V = | 10 | 19 | ...

V[0] V[1]

How to print?

~~cout << V; // No.~~

for (int i = 0; i < V.size(); i++)

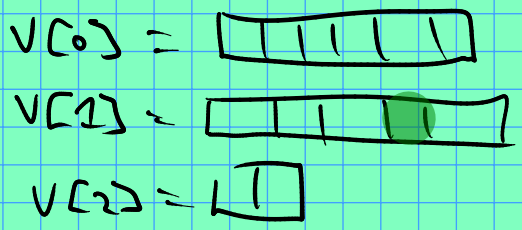
cout << V[i] << " ";

How to remove?

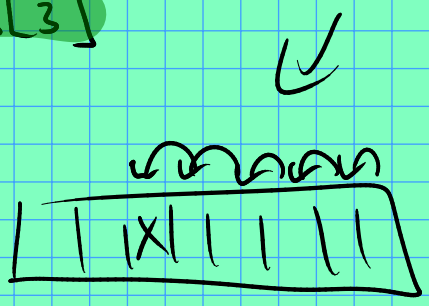
Say V = | 10 | 19 | 23 |.

V.pop_back(); // Now V = | 10 | 19 |

```
vector<vector<int>> V;
// type of V[0] is vector<int>
```



V[1][3]



V.at(i) ≡ V[i]

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l-value?