Vectors

From last time remember what vectors give you:

- expandable container of variables, of any datatype: `vector<type of each V[i]> V;`

  int, char, string...

- to append new element x:

```
V.push_back(x);
```

- to remove last element:

```
V.pop_back();
```

- to get the size (# of elements):

```
V.size();
```

datatype is size_t (unsigned, as large as possible)

Exercise: given a vector of integers V and a target value t, figure out if ∃ indexes $i \neq j$ s.t. $V[i] + V[j] == t$.

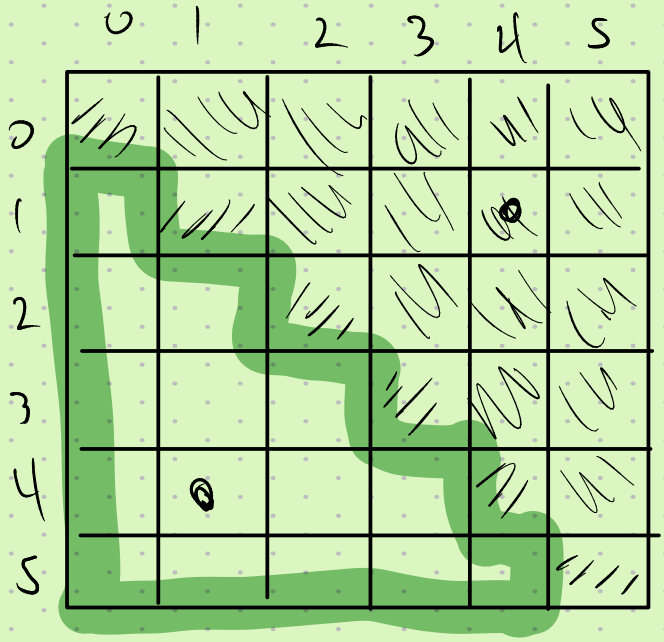
"there exists" "such that"

Example: say V = | 1 | 7 | -2 | 19 |

If t = 5, answer is "yes": V[1] + V[2] = t

If t = 13, answer is "no".

(Say V.size() = 6)



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