From last time: given vector V of integers + int t

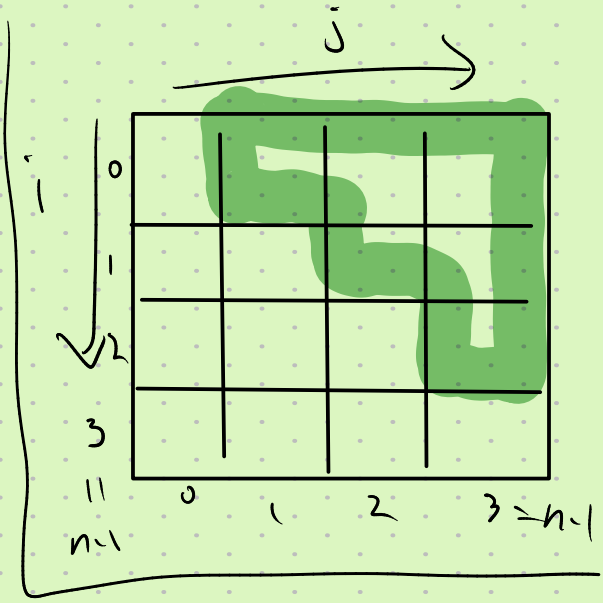
find indexes $i \neq j$ s.t. $V[i] + V[j] == t$.

Idea: try every thing (almost).

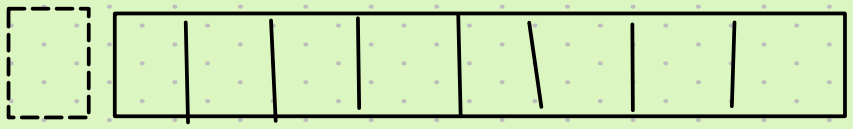
$0 \leq i < j < n$ $\quad (n = V.size())$

Easy using for loops:

```
for(i=0; i<n-1; i++) {
    for(j=i+1; j<n; j++) {
        // did (i,j) solve the problem?
        if(V[i]+V[j]==t)
            ...
```



Exercise: write a function "push_front" that adds a new value to the beginning of a vector.



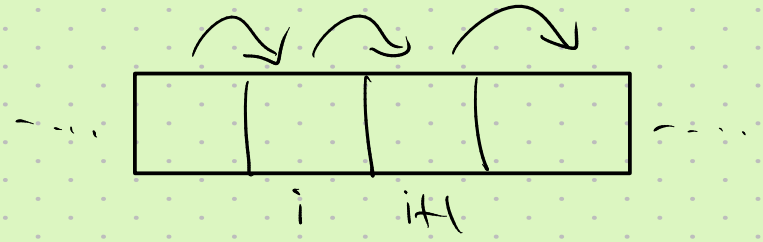
Can't just overwrite this.
Some other variable might be there.

Strategy: shift all elements to the right by

one space, then add new element.

① Grow vector by 1. push_back(0) or v.resize(n+1)

② shift right: <-- time --



v[i+1] = v[i]

③ Say x is the thing to add:

v[0] = x;