Two Sum

```cpp
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        int i;
        int j;

        vector<int> awn;

        for (i = 0;i<nums.size();i++){
            if (nums[i] <= target){
              for (j = i+1;j<nums.size();j++){
                if ((nums[j] + nums[i]) == target){
                    awn.push_back(i);
                    awn.push_back(j);
                    return awn;
                }
              }
            }
        }

        for (i = 0;i<nums.size();i++){
            if (nums[i] >= target){
              for (j = i+1;j<nums.size();j++){
                if ((nums[j] + nums[i]) == target){
                    awn.push_back(i);
                    awn.push_back(j);
                    return awn;
                }
              }
            }
        }

        return awn;
```

```
    }
};
```

- Working solution
  - iterates through and finds numbers less then target
  - then compares with numbers after to see if they add up to target
  - if nothing is found
  - iterates through and finds numbers greater then target (negative target)
  - then compares with numbers after to see if they add up to target