Two Sum

```python
class Solution:
    def twosum(self, nums: List[int], target: int) -> List[int]:

        for i in range(len(nums)):
            for j in range(i+1, len(nums)):
                if nums[i] + nums[j] == target:
                    return [i, j]
        return []

print(Solution().two_sum(nums = [3,4,5,6], target= 7)
```

Step 1:
  self -> solution instance
  nums -> [3,4,5,6]
  target -> 7

Step 2 and 3:
  $\begin{pmatrix} \text{for i in range (len (nums)):} \\ \text{for j in range (i+1, len (nums)):} \end{pmatrix}$

  i -> 0
  j -> 1

Step 4: [if nums[i] + nums[j] == target;]

nums[0] + nums[1] == target =>

3 + 4 == 7 =>

Step 5:

return [0, 1]   ✓