```
4 SUM
def four_sum(nums, target):
  nums.sort()
  res = []
  n = len(nums)
  for i in range(n - 3):
    if i > 0 and nums[i] == nums[i - 1]:
      continue
    for j in range(i + 1, n - 2):
      if j > i + 1 and nums[j] == nums[j - 1]:
        continue
      left, right = j + 1, n - 1
      while left < right:
        four_sum = nums[i] + nums[j] + nums[left] + nums[right]
        if four_sum == target:
          res.append([nums[i], nums[j], nums[left], nums[right]])
          left += 1
          right -= 1
          while left < right and nums[left] == nums[left - 1]:</pre>
            left += 1
          while left < right and nums[right] == nums[right + 1]:</pre>
            right -= 1
        elif four_sum < target:</pre>
          left += 1
        else:
          right -= 1
  return res
nums = [1, 0, -1, 0, -2, 2]
target = 0
print(four_sum(nums, target))
```