

3 Sum

```
1 class Solution(object):
2     def allTriples(self, array, target):
3         """
4         input: int[] array, int target
5         return: int[][]
6         """
7         # write your solution here
8         result = []
9         array.sort()
10        for i in range(len(array) - 2):
11            if i > 0 and array[i] == array[i - 1]:
12                continue
13            left = i + 1
14            right = len(array) - 1
15            while left < right:
16                tmp = array[left] + array[right]
17                if tmp + array[i] == target:
18                    result.append([array[i], array[left], array[right]])
19                    left += 1
20                    while left < right and array[left] == array[left - 1]:
21                        left += 1
22                elif tmp + array[i] < target:
23                    left += 1
24                else:
25                    right -= 1
26        return result
```