

1561. Maximum Number of Coins You Can Get

There are $3n$ piles of coins of varying size, you and your friends will take piles of coins as follows:

- In each step, you will choose **any** 3 piles of coins (not necessarily consecutive).
- Of your choice, Alice will pick the pile with the maximum number of coins.
- You will pick the next pile with maximum number of coins.
- Your friend Bob will pick the last pile.
- Repeat until there are no more piles of coins.

Given an array of integers `piles` where `piles[i]` is the number of coins in the `ith` pile.

Return the maximum number of coins which you can have.

Example 1:

Input: `piles = [2,4,1,2,7,8]`

Output: 9

Explanation: Choose the triplet (2, 7, 8), Alice Pick the pile with 8 coins, you the pile with **7** coins and Bob the last one.

Choose the triplet (1, 2, 4), Alice Pick the pile with 4 coins, you the pile with **2** coins and Bob the last one.

The maximum number of coins which you can have are: $7 + 2 = 9$.

On the other hand if we choose this arrangement (1, **2**, 8), (2, **4**, 7) you only get $2 + 4 = 6$ coins which is not optimal.

Example 2:

Input: `piles = [2,4,5]`

Output: 4

Example 3:

Input: `piles = [9,8,7,6,5,1,2,3,4]`

Output: 18

```
def maxCoins(self, piles: List[int]) -> int:
    piles.sort()
    i = 0
    j = len(piles)-1

    count = 0
```

```
while i<j:  
    count = count+piles[j-1]  
    i = i+1  
    j = j-2  
return count
```