

- container w/ $3n$ items
- Pick any 3 items in bag
- P1 takes smallest in bag
- P2 takes largest in bag
- You take remaining item

input: [2 4 1 2 7 8]

1.) Sort array

2.) Pick smallest # in arr and 1st & 2nd largest

3.) Add 2nd largest to running sum for YOU

4.) Remove selected 3 #'s from pool.

$f(v: \text{List}[\text{int}]) \rightarrow \text{int} :$

```

sort(v)
result = 0
b = v.begin()
e = v.end() - 2
while (b < e)
    result += *e
    e -= 2
    b += 1
return result

```