Array -12

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Maximum cookies to k children

candies = {2, 5, 7, 10}
k = 5 children

l = 1
r = max(candies) → 10
result = 0

It 1
mid = (1+10)/2 = 5

2	5	7	10

2/5 5/5 7/5 10/5
= 0 = 1 = 1 → 2
Total = 4
4 <= 5 → r = mid - 1 → 4

It 2
l = 1
r = 4
mid = (1+4)/2 => 2

2	5	7	10
↓	↓	↓	↓
1	2	3	5

=> 11 ≥ 5
l = mid + 1 = 3

It 3
l = 3, r = 4
mid = (3+4)/2 = 3

2	5	7	10
↓	↓	↓	↓
0	1	2	3

total = 6
6 ≥ 5

It 4
l = 4, r = 4
mid = 4

2	5	17	11
0	1	2	

Total = 4
4 < 5 => Not possible
r = mid - 1 = 3
l = 4, r = 3 → l ≥ r → loop ends
return 3