



hanhan015

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First we sort the array. Then we initialize two cursors  $i, j$  pointing at the beginning and the end of the sorted array. Start checking if the current combination satisfies the constraint.

case 1. yes, then we move  $i$  one step further:  $i <- i+1$ , update the ans:  $ans <- \max(ans, current)$

case 2 no, move  $j$  one step to the left:  $j <- j-1$

Ulll they meet, return the ans

```
def towSumLessThanK(A,K):
    a = sorted(A)
    i,j = 0,len(a)-1
    ans = -1
    while i<j:
        if a[i]+a[j]<K:
            ans = max(ans,a[i]+a[j])
            i += 1
        else:
            j -= 1
    return ans
...
```

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