# 502. IPO

## SOLUTION IN JAVA

class T {

public int pro;

public int cap;

public T(int pro, int cap) {

this.pro = pro;

this.cap = cap;

}

}

class Solution {

public int findMaximizedCapital(int k, int W, int[] Profits, int[] Capital) {

Queue<T> minHeap = new PriorityQueue<>((a, b) -> a.cap - b.cap);

Queue<T> maxHeap = new PriorityQueue<>((a, b) -> b.pro - a.pro);

for (int i = 0; i < Capital.length; ++i)

minHeap.offer(new T(Profits[i], Capital[i]));

while (k-- > 0) {

while (!minHeap.isEmpty() && minHeap.peek().cap <= W)

maxHeap.offer(minHeap.poll());

if (maxHeap.isEmpty())

break;

W += maxHeap.poll().pro;

}

return W;

}

}