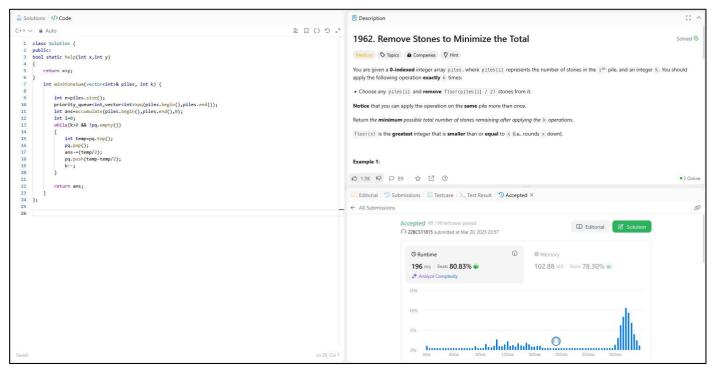


1662. Remove Stones to Minimize the Total

https://leetcode.com/problems/remove-stones-to-minimize-the-total/description

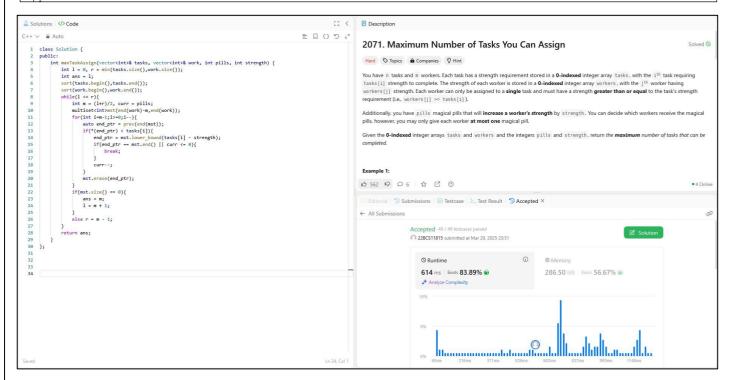
```
class Solution {
public:
bool static help(int x, int y)
    return x>y;
}
    int minStoneSum(vector<int>& piles, int k) {
        int n=piles.size();
        priority_queue<int, vector<int>>pq(piles.begin(), piles.end());
        int ans=accumulate(piles.begin(),piles.end(), ●);
         int i=\mathbf{0};
        while (k> \bullet \&\& !pq.empty())
             int temp=pq.top();
             pq.pop();
             ans-=(temp/2);
             pq.push(temp-temp/2);
             k--;
         }
        return ans;
    }
```



2071. Maximum Number of Tasks You Can Assign

https://leetcode.com/problems/maximum-number-of-tasks-you-can-assign/description/

```
class Solution {
public:
    int maxTaskAssign(vector<int>& tasks, vector<int>& work, int pills, int strength) {
         int l = \mathbf{0}, r = \min(tasks.size(), work.size());
         int ans = 1;
         sort(tasks.begin(),tasks.end());
         sort(work.begin(),work.end());
         while(l \le r){
             int m = (1+r)/2, curr = pills;
             multiset<int>mst(end(work)-m,end(work));
             for (int i=m-1; i>=\mathbf{0}; i--) {
                 auto end ptr = prev(end(mst));
                  if(*(end_ptr) < tasks[i]){</pre>
                      end_ptr = mst.lower_bound(tasks[i] - strength);
                      if(end ptr == mst.end() || curr <= \mathbf{0}){
                          break;
                      curr--;
                  }
                 mst.erase(end ptr);
             if(mst.size() == \mathbf{0}){
                 ans = m;
                 1 = m + 1;
             else r = m - 1;
         return ans;
    }
```



1827. Minimum Operations to Make the Array Increasing

https://leetcode.com/problems/minimum-operations-to-make-the-array-increasing/description

```
class Solution {
public:
    int maxTaskAssign(vector<int>& tasks, vector<int>& work, int pills, int strength) {
        int l = \mathbf{0}, r = \min(tasks.size(), work.size());
         int ans = 1;
         sort(tasks.begin(),tasks.end());
         sort(work.begin(), work.end());
         while (l \ll r) {
             int m = (1+r)/2, curr = pills;
             multiset<int>mst(end(work)-m,end(work));
             for(int i=m-1; i>=\mathbf{0}; i--) {
                 auto end ptr = prev(end(mst));
                 if(*(end_ptr) < tasks[i]){</pre>
                      end ptr = mst.lower bound(tasks[i] - strength);
                      if(end ptr == mst.end() || curr <= ●){
                          break;
                      }
                      curr--;
                  }
                 mst.erase(end_ptr);
             if(mst.size() == \mathbf{0}){
                 ans = m;
                 1 = m + 1;
             else r = m - 1;
         return ans;
    }
```

