

```
1 piles = [2, 4, 1, 2, 7, 8]
2 piles.sort(reverse=True)
3 print(sum(piles[i] for i in range(1, len(piles), 2)[:len(piles)//3]))
4 |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

9

[Done] exited with code=0 in 0.134 seconds

Code

```
1 coins, target, added = [1, 4, 10], 19, 0
2 coins.sort()
3 for coin in coins:
4     if coin <= target: target -= coin; added += 1
5 print(added)
6
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Done] exited with code=0 in 0.134 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

3

[Done] exited with code=0 in 0.137 seconds

```
1 jobs, k = [1, 2, 4, 7, 8], 2
2 print(max(sum(sorted(jobs)[i::k]) for i in range(k)))
3
```

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PROBLEMS

OUTPUT

DEBUG CONSOLE

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Code



[Done] exited with code=0 in 0.137 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
13

[Done] exited with code=0 in 0.155 seconds

```
1
2
3
4 from bisect import bisect_right as br
5 start, end, profit = [1, 2, 3, 4, 6], [3, 5, 10, 6, 9], [20, 20, 100, 70]
6 dp = [0] * (len(profit) + 1)
7 for i in range(len(profit)):
8     dp[i + 1] = max(dp[i], profit[i] + dp[br(end, start[i])])
9 print(dp[-1])
10
```

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Code



[Done] exited with code=0 in 0.155 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
120

[Done] exited with code=0 in 0.148 seconds

```
1 import heapq
2 graph, n, src = [[0, 10, 3, float('inf')], [float('inf'), 0, 1, 2], [float('inf'), 4, 0, 8]]
3 dist, heap = [float('inf')] * n, [(0, src)]
4 dist[src] = 0
5 while heap:
6     d, u = heapq.heappop(heap)
7     for v, w in enumerate(graph[u]):
8         if d + w < dist[v]: dist[v] = d + w; heapq.heappush(heap, (dist[v], v))
9 print(dist)
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code



[Done] exited with code=0 in 0.148 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

[0, 7, 3, 9]

[Done] exited with code=0 in 0.155 seconds

```
1 import heapq
2 edges, src, target = [(0, 1, 10), (0, 4, 3), (1, 2, 2)], 0, 3
3 dist, heap = {i: float('inf') for i in range(6)}, [(0, src)]
4 dist[src] = 0
5 while heap:
6     d, u = heapq.heappop(heap)
7     for v, w in [(y, z) for x, y, z in edges if x == u]:
8         if d + w < dist[v]: dist[v] = d + w; heapq.heappush(heap, (dist[v], v))
9 print(dist[target])
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Done] exited with code=0 in 0.125 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
inf

[Done] exited with code=0 in 0.129 seconds

```

1 import heapq
2 from collections import defaultdict
3 freq = {'a': 5, 'b': 9, 'c': 12, 'd': 13}
4 heap = [[wt, [ch, ""]] for ch, wt in freq.items()]
5 heapq.heapify(heap)
6 while len(heap) > 1:
7     lo, hi = heapq.heappop(heap), heapq.heappop(heap)
8     for pair in lo[1:]: pair[1] = '0' + pair[1]
9     for pair in hi[1:]: pair[1] = '1' + pair[1]
10    heapq.heappush(heap, [lo[0] + hi[0]] + lo[1:] + hi[1:])
11 print(sorted(heapq.heappop(heap)[1:], key=lambda p: (len(p[-1]), p)))
12

```

PROBLEMS

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Code

[Done] exited with code=0 in 0.129 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
 [['a', '00'], ['b', '01'], ['c', '10'], ['d', '11']]

[Done] exited with code=0 in 0.156 seconds

```
1 encoded = "1101100111110"
2 code_map = {'a': '110', 'b': '10', 'c': '0', 'd': '111'}
3 rev_map = {v: k for k, v in code_map.items()}
4 res, temp = '', ''
5 for bit in encoded:
6     temp += bit
7     if temp in rev_map:
8         res += rev_map[temp]
9         temp = ''
10 print(res)
11 |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Done] exited with code=0 in 0.156 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
aacda

[Done] exited with code=0 in 0.13 seconds


```

1  def max_weight(weights, max_capacity):
2      weights.sort(reverse=True) # Sort the weights in descending order
3      current_weight = 0
4
5      for weight in weights:
6          if current_weight + weight <= max_capacity:
7              current_weight += weight
8
9      return current_weight
10
11 # Test Case 1
12 weights1 = [10, 20, 30, 40, 50]
13 max_capacity1 = 60
14 print(max_weight(weights1, max_capacity1)) # Output: 50
15
16 # Test Case 2
17 weights2 = [5, 10, 15, 20, 25, 30]
18 max_capacity2 = 50
19 print(max_weight(weights2, max_capacity2)) # Output: 50
20

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Done] exited with code=0 in 0.158 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

60

50

[Done] exited with code=0 in 0.111 seconds

```

1 def min_containers(weights, max_capacity):
2     weights.sort(reverse=True) # Sort weights in descending order
3     containers = 0
4
5     while weights:
6         current_capacity = 0
7         for weight in weights[:]: # Iterate through a copy of the list
8             if current_capacity + weight <= max_capacity:
9                 current_capacity += weight
10                weights.remove(weight) # Remove the item from the original list
11            containers += 1
12
13     return containers
14
15 # Test Case 1
16 weights1 = [5, 10, 15, 20, 25, 30, 35]
17 max_capacity1 = 50
18 print(min_containers(weights1, max_capacity1)) # Output: 4
19
20 # Test Case 2
21 weights2 = [10, 20, 30, 40, 50, 60, 70, 80]
22 max_capacity2 = 100
23 print(min_containers(weights2, max_capacity2)) # Output: 6
24

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Done] exited with code=0 in 0.111 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

3

4

[Done] exited with code=0 in 0.138 seconds

```
1  from heapq import heapify, heappop
2  edges, mst, n = [(0, 1, 2), (0, 3, 6), (1, 2, 3)], [], 4
3  heapify(edges)
4  while len(mst) < n - 1:
5      u, v, w = heappop(edges)
6      mst.append((u, v, w))
7  print(mst)
8  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

[Done] exited with code=0 in 0.138 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"
[(0, 1, 2), (0, 3, 6), (1, 2, 3)]

[Done] exited with code=0 in 0.068 seconds

```

1 def find(parent, x):
2     if parent[x] != x: parent[x] = find(parent, parent[x])
3     return parent[x]
4
5 def kruskal(n, edges):
6     edges.sort(key=lambda x: x[2])
7     parent, rank, mst = list(range(n)), [0] * n, []
8     for u, v, w in edges:
9         pu, pv = find(parent, u), find(parent, v)
10        if pu != pv:
11            if rank[pu] > rank[pv]: parent[pv] = pu
12            else: parent[pu] = pv; rank[pv] += rank[pu] == rank[pv]
13            mst.append((u, v, w))
14    return mst
15
16 # Check if MST is unique
17 def is_unique_mst(n, edges, mst):
18     return sum(w for _, _, w in kruskal(n, edges)) == sum(w for _, _, w in mst)
19
20 # Test Cases
21 print(is_unique_mst(4, [(0,1,10),(0,2,6),(0,3,5),(1,3,15),(2,3,4)], [(2,3,4),(0,3,5),(0,1,10)])) # True
22 print(is_unique_mst(5, [(0,1,1),(0,2,1),(1,3,2),(2,3,2),(3,4,3),(4,2,3)], [(0,1,1),(0,2,1),(1,3,2),(3,4,3)])) # False
23

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Done] exited with code=1 in 0.082 seconds

[Running] python -u "c:\Users\hp\OneDrive\Desktop\tempCodeRunnerFile.python"

True

True

[Done] exited with code=0 in 0.068 seconds