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1. 题目
E22548: 机智的股民老张
http://cs101.openjudge.cn/practice/22548/
代码:
a = map(int, input().split())
min_price = float('inf')
max_profit = 0
for price in a:
    min_price = min(min_price, price)
    max_profit = max(max_profit, price - min_price)
print(max_profit)
代码运行截图 (至少包含有"Accepted")
状态: Accepted
                                                                 基本信息
源代码
                                                                      #: 47673558
                                                                    题目: 22548
 a = map(int, input().split())
                                                                   提交人: misty
 min_price = float('inf')
                                                                    内存: 7856kB
 max_profit = 0
                                                                    时间: 47ms
 for price in a:
                                                                    语言: Python3
    min_price = min(min_price, price) # 更新最小值
                                                                  提交时间: 2024-12-10 22:51:20
    max_profit = max(max_profit, price - min_price) # 更新最大利润
M28701: 炸鸡排
greedy, http://cs101.openjudge.cn/practice/28701/
代码:
n,k = map(int,input().split())
t = list(map(int,input().split()))
t.sort()
s = sum(t)while True:
    if t[-1] > s/k:
         s = t[-1]
         t.pop()
         k = 1
    else:
         print(f'{s / k:.3f}')
         break
代码运行截图 == (至少包含有"Accepted") ==
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状态: Accepted
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基本信息
源代码
                                                                           #: 47673758
                                                                         题目: 28701
  n,k = map(int,input().split())
                                                                        提交人: misty
  t = list(map(int,input().split()))
                                                                         内存: 3612kB
  t.sort()
                                                                         时间: 27ms
  s = sum(t)
  while True:
                                                                         语言: Python3
     if t[-1] > s/k:
    s -= t[-1]
                                                                       提交时间: 2024-12-10 23:00:34
M20744: 土豪购物
dp, http://cs101.openjudge.cn/practice/20744/
代码:
a=list(map(int,input().split(",")))
n=len(a)
dp1,dp2=a[0],a[0]
ans=0
for i in range(1,n):
     dp1,dp2=max(a[i],dp1+a[i]),max(dp1,dp2+a[i])
     ans=max(ans,dp2)
print(ans)
代码运行截图 (至少包含有"Accepted")
 状态: Accepted
                                                                    基本信息
 源代码
                                                                         #: 47674079
                                                                       题目: 20744
  a=list(map(int,input().split(",")))
                                                                      提交人: misty
  n=len(a)
                                                                       内存: 9412kB
  dp1,dp2=a[0],a[0]
                                                                       时间: 64ms
  for i in range(1,n):
                                                                       语言: Python3
      dp1,dp2=max(a[i],dp1+a[i]),max(dp1,dp2+a[i])
                                                                     提交时间: 2024-12-10 23:18:53
      ans=max(ans,dp2)
T25561: 2022 决战双十一
brute force, dfs, http://cs101.openjudge.cn/practice/25561/
代码:
result = float("inf")
n, m = map(int, input().split())
store_prices = [input().split() for _ in range(n)]
you= [input().split() for _ in range(m)]
la=[0]*m
def dfs(i,sum1):
     global result
     if i==n:
          jian=0
          for i2 in range(m):
               store j=0
               for k in you[i2]:
                    a,b=map(int,k.split('-'))
                    if la[i2]>=a:
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store_j=max(store_j,b)
               jian+=store j
          result=min(result,sum1-(sum1//300)*50-jian)
     for i1 in store prices[i]:
          idx,p=map(int,i1.split(':'))
          la[idx-1]+=p
          dfs(i+1,sum1+p)
          la[idx-1]-=p
dfs(0,0)
print(result)
代码运行截图 (至少包含有"Accepted")
 状态: Accepted
                                                                     基本信息
 源代码
                                                                          #: 47674112
                                                                         题目: 25561
  result = float("inf")
                                                                        提交人: misty
  n, m = map(int, input().split())
                                                                         内存: 3676kB
  store_prices = [input().split() for
                                   in range(n)]
                                                                         时间: 66ms
  you= [input().split() for _ in range(m)]
                                                                         语言: Python3
  def dfs(i,sum1):
                                                                      提交时间: 2024-12-10 23:20:41
      global result
      if i==n:
T20741: 两座孤岛最短距离
dfs, bfs, http://cs101.openjudge.cn/practice/20741/
代码:
from collections import deque
def dfs(x, y, grid, n, queue, directions):
     """ Mark the connected component starting from (x, y) as visited using DFS. """
     grid[x][y] = 2 # Mark as visited
     queue.append((x, y))
     for dx, dy in directions:
          nx, ny = x + dx, y + dy
          if 0 \le nx \le n and 0 \le ny \le n and grid[nx][ny] == 1:
               dfs(nx, ny, grid, n, queue, directions)
def bfs(grid, n, queue, directions):
     """ Perform BFS to find the shortest path to another component. """
     distance = 0
     while queue:
          for in range(len(queue)):
               x, y = queue.popleft()
               for dx, dy in directions:
                    nx, ny = x + dx, y + dy
                    if 0 \le nx \le n and 0 \le ny \le n:
                         if grid[nx][ny] == 1:
                              return distance
                         elif grid[nx][ny] == 0:
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grid[nx][ny] = 2 # Mark as visited
                              queue.append((nx, ny))
          distance += 1
     return distance
def main():
     n = int(input())
     grid = [list(map(int, input())) for _ in range(n)]
     directions = [(1, 0), (-1, 0), (0, 1), (0, -1)]
     queue = deque()
     # Start DFS from the first '1' found and use BFS from there
     for i in range(n):
          for j in range(n):
               if grid[i][j] == 1:
                    dfs(i, j, grid, n, queue, directions)
                    return bfs(grid, n, queue, directions)
if __name__ == "__main__":
     print(main())
代码运行截图 (至少包含有"Accepted")
 状态: Accepted
                                                                       基本信息
 源代码
                                                                             #: 47674157
                                                                           题目: 20741
  from collections import deque
                                                                          提交人: misty
                                                                           内存: 4300kB
  def dfs(x, y, grid, n, queue, directions):
                                                                           时间: 29ms
      """ Mark the connected component starting from (x, y) as visited us.
      grid[x][y] = 2 # Mark as visited
                                                                           语言: Python3
      queue.append((x, y))
                                                                        提交时间: 2024-12-10 23:23:21
      for dx, dy in directions:
          nx. nv = x + dx. v + dv
T28776: 国王游戏
greedy, http://cs101.openjudge.cn/practice/28776
代码:
n = int(input())
a0,b0 = map(int,input().split())
numbers = []
for _ in range(n):
     a,b = map(int,input().split())
     numbers.append((a,b))
numbers.sort(key = lambda x:(x[0]*x[1]))
result = 0
for i in range(n):
     result = max(result,a0 //numbers[i][1])
     a0 *= numbers[i][0]
print(result)
```

代码运行截图 (至少包含有"Accepted")

状态: Accepted

基本信息

- 2. 学习总结和收获
- 1 现在比较会的就 dp 了
- 2 bfsdfs 一长就感觉难学
- 3 贪心写起来很公式化,就是不好想排序的条件,比如国王游戏