

# 计概B作业4

## 34B. Sale

思路：找负数中最小的n个加起来

代码：

```
a = input().split()
b = input().split()
for i in range(len(b)):
    b[i]=int(b[i])
b.sort()
for i in range(int(a[0])):
    if int(b[i]) >= 0:
        b.remove(b[i])
        b.insert(i,0)
if min(int(a[1]),len(b)) != 0:
    c = sum(int(b[i]) for i in range(min(int(a[1]),len(b))))
    print(-c)
else:
    print(0)
```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
280299603	Practice: weijialiang	<a href="#">34B</a> - 4	Python 3	Accepted	154 ms	20 KB	2024-09-08 12:28:24	2024-09-08 12:28:24		<a href="#">Compare</a>

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```
a = input().split()
b = input().split()
for i in range(len(b)):
    b[i]=int(b[i])
b.sort()
for i in range(int(a[0])):
    if int(b[i]) >= 0:
        b.remove(b[i])
        b.insert(i,0)
if min(int(a[1]),len(b)) != 0:
    c = sum(int(b[i]) for i in range(min(int(a[1]),len(b))))
    print(-c)
else:
    print(0)
```

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## 160A. Twins

思路：sort完找sum大于总和1/2的数量

代码：

```

a = int(input())
e = input().split()
b = [int(x) for x in e]
b.sort(reverse = True)
c = sum(b)
d = 0
for i in range(a):
    if d <= c/2:
        d += int(b[i])
        if d > c/2:
            print(i+1)

```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
280317596	Practice: weijialiang	<a href="#">160A</a> - 20	Python 3	Accepted	154 ms	24 KB	2024-09-08 14:50:11	2024-09-08 14:50:11	★	<button>Compare</button>

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```

a = int(input())
e = input().split()
b = [int(x) for x in e]
b.sort(reverse = True)
c = sum(b)
d = 0
for i in range(a):
    if d <= c/2:
        d += int(b[i])
        if d > c/2:
            print(i+1)

```

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## 1879B. Chips on the Board

思路：行和列至少有一个要被填满，另一个都取最小的就好

代码：

```

def solve(a,b,n):
    c = sum(int(x) for x in a) + n * min(int(y) for y in b)
    d = sum(int(y) for y in b) + n * min(int(x) for x in a)
    return min(c,d)

k = int(input())
n = [[] for i in range(k)]
a = [[] for i in range(k)]
b = [[] for i in range(k)]
for i in range(k):
    n[i] = input()
    a[i] = input().split()
    b[i] = input().split()
for i in range(k):
    print(solve(a[i],b[i],int(n[i])))

```

General										
#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
280326005	Practice: weijialiang	<a href="#">1879B</a> - 10	Python 3	Accepted	437 ms	49652 KB	2024-09-08 16:00:14	2024-09-08 16:00:14	☆	<button>Compare</button>

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```
def solve(a,b,n):
    c = sum(int(x) for x in a) + n * min(int(y) for y in b)
    d = sum(int(y) for y in b) + n * min(int(x) for x in a)
    return min(c,d)
k = int(input())
n = [[] for i in range(k)]
a = [[] for i in range(k)]
b = [[] for i in range(k)]
for i in range(k):
    n[i] = input()
    a[i] = input().split()
    b[i] = input().split()
for i in range(k):
    print(solve(a[i],b[i],int(n[i])))
```

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## B. Taxi

思路：把2，3，4的给确定，1能填进去就不管，不够填再加

代码：

```
n = int(input())
l = list(map(int,input().split()))
a = l.count(1)
b = l.count(2)
c = l.count(3)
d = n-a-b-c
ans = 0
ans += d+c-(-b//2)
if a > c+2*(b%2):
    ans += -(a-(c+2*(b%2))//4)
print(ans)
```

General										
#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
285747911	Practice: weijialiang	<a href="#">158B</a> - 10	Python 3	Accepted	186 ms	3388 KB	2024-10-14 03:10:28	2024-10-14 03:10:28	☆	<button>Compare</button>

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```
n = int(input())
l = list(map(int,input().split()))
a = l.count(1)
b = l.count(2)
c = l.count(3)
d = n-a-b-c
ans = 0
ans += d+c-(-b//2)
if a > c+2*(b%2):
    ans += -(a-(c+2*(b%2))//4)
print(ans)
```

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## 230B. T-primes

思路：欧拉筛

代码：

```

from math import sqrt
a = [True]*(10**6+1)
b = []
for i in range(2,10**6+1):
    if a[i] == True:
        b.append(i)
    for x in b:
        if i * x <= 10**6:
            a[i * x] = False
            if i % x == 0:
                break
        else:
            break
x = int(input())
y = list(map(int,input().split()))
for i in range(x):
    if sqrt(y[i]) != int(sqrt(y[i])) or y[i] == 1:
        print('NO')
    else:
        print(['NO', 'YES'][a[int(sqrt(y[i]))]])

```

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

General

#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged		
283218331	Practice: weijialiang	<a href="#">230B</a> - 28	Python 3	Accepted	1530 ms	24348 KB	2024-09-27 17:39:50	2024-09-27 17:39:52	★	<a href="#">Compare</a>

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```

from math import sqrt
a = [True]*(10**6+1)
b = []
for i in range(2,10**6+1):
    if a[i] == True:
        b.append(i)
    for x in b:
        if i * x <= 10**6:
            a[i * x] = False
            if i % x == 0:
                break
        else:
            break
x = int(input())
y = list(map(int,input().split()))
for i in range(x):
    if sqrt(y[i]) != int(sqrt(y[i])) or y[i] == 1:
        print('NO')
    else:
        print(['NO', 'YES'][a[int(sqrt(y[i]))]])

```

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预览

## 12559: 最大最小整数

思路：实际上没有想到很好的思路（比如说补全后sort或者冒泡排序），想用递归，最后不仅爆栈还wa，破防了，看了答案思路自己编才ac

代码：

```
n = int(input())
l = input().split()
k = 2*max(len(x) for x in l)
ans = []
for x in l:
    y = (x*(k//len(x)+1))[:k]
    ans.append([x,y])
r = sorted(ans,key=lambda x: int(x[1]))
o = ''.join([x[0] for x in r])
r.reverse()
p = ''.join([x[0] for x in r])
print(p+' '+o)
```

#46513734提交状态

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状态: **Accepted**

源代码

```
n = int(input())
l = input().split()
k = 2*max(len(x) for x in l)
ans = []
for x in l:
    y = (x*(k//len(x)+1))[:k]
    ans.append([x,y])
r = sorted(ans,key=lambda x: int(x[1]))
o = ''.join([x[0] for x in r])
r.reverse()
p = ''.join([x[0] for x in r])
print(p+' '+o)
```

基本信息

#: 46513734  
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语言: Python3  
提交时间: 2024-10-16 09:30:05

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**学习总结和收获：**之前作业补完了，算法基础之前由于两个dp题wa但debug不出来（群里也没人回）导致有些懈怠，晚上准备找助教线下答疑，准备开始练习贪心，贪心学完了再搞dp