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# -*- coding: utf-8 -*-
Created on Sat Nov 13 20:21:36 2021
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.....
import random as r
#User Input
Bank=[]
N=int(input())
for i in range(N):
 Bank.append(input())
#Creating Population
population_size= 2**N-1
#print(population_size)
i=0
population=[]
while (i<=population_size):
```

```
combination=""
 for j in range(N):
  bit=str(r.randrange(0,2))
  combination+=bit
 if combination not in population:
  #if combination is not '0000000':
  population.append(combination)
  i+=1
#Sum Calculation
zeros=""
for k in range(N):
 zeros+="0"
if zeros in population:
 population.remove(zeros)
total_sum=[]
for combination in population:
 sum=0
 for i in range (N):
  if combination[i]=="1":
   pos=Bank[i].split()
```

```
state=pos[0]
if state=="d":
    sum+= int(pos[1])
else:
    sum-=int(pos[1])
total_sum.append(sum)

flag="yes"
for i in range (population_size):
    if total_sum[i]==0:
        #print(i)
    print(population[i])
    flag=="yes":
    print(-1)
```