Advent of Code 2022

tails618

December 2022

1 Day 1: Calorie Counting

1.1 Puzzle 1

The Elves take turns writing down the number of Calories contained by the various meals, snacks, rations, etc. that they've brought with them, one item per line. Each Elf separates their own inventory from the previous Elf's inventory (if any) by a blank line.

In case the Elves get hungry and need extra snacks, they need to know which Elf to ask: they'd like to know how many Calories are being carried by the Elf carrying the most Calories. In the example above, this is 24000 (carried by the fourth Elf).

Find the Elf carrying the most Calories. How many total Calories is that Elf carrying?

1.1.1 Full Code

```
# open data file
input = open("1-data.txt", "r")
data = input.readlines()

# remove '\n' from each item except the final one
for i in range(len(data) - 1):
    data[i] = data[i][:-1]

# maybe add an extra blank at the end because jank
if data[-1] != '':
    data.append('')

# sum the items between each blank in the list
lastBlank = 0
sums = []
for i, x in enumerate(data):
    if x == '':
        sums.append(sum(int(i) for i in data[lastBlank:i]))
        lastBlank = i + 1

# find the biggest sum
sums.sort()
print(sums[-1])
```

1.2 Puzzle 2

By the time you calculate the answer to the Elves' question, they've already realized that the Elf carrying the most Calories of food might eventually run out of snacks.

To avoid this unacceptable situation, the Elves would instead like to know the total Calories carried by the top three Elves carrying the most Calories. That way, even if one of those Elves runs out of snacks, they still have two backups.

Find the top three Elves carrying the most Calories. How many Calories are those Elves carrying in total?

```
print(sums[-1] + sums[-2] + sums[-3])
```