

Тренировочный контест — бэкенд

[Задачи](#) [Посылки](#) [Сообщения](#)

В. Через тернии к клиенту

✓ Полное решение </> OK Python 3.12.3

^ Исходный код



```
1 class Time:
2     def __init__(self):
3         self.day = 0
4         self.hour = 0
5         self.minute = 0
6
7     def add(self, day, hour, minute):
8         self.day += day
9         self.hour += hour
10        self.minute += minute
11
12    def sub(self, day, hour, minute):
13        self.day -= day
14        self.hour -= hour
15        self.minute -= minute
16
17    def count_minutes(self) -> int:
18        return (self.day * 24 + self.hour) * 60 + self.minute
19
20
21 class LogEntry:
22     def __init__(self, data: list[str]):
23         self.day = int(data[0])
24         self.hour = int(data[1])
25         self.minute = int(data[2])
26         self.id = int(data[3])
27         self.letter = data[4]
28
29
30 def main(filename: str):
31     rockets_time: dict[int, Time] = {}
32
33     with open(filename) as f:
34         next(f)
35
36         for line in f:
37             log = LogEntry(line.split())
38
39             if log.letter == "B":
40                 continue
41
42             if log.id not in rockets_time:
43                 rockets_time[log.id] = Time()
44
45             if log.letter == "A":
46                 rockets_time[log.id].sub(log.day, log.hour, log.minute)
47             else:
48                 rockets_time[log.id].add(log.day, log.hour, log.minute)
49
50     for key in sorted(rockets_time):
51         print(rockets_time[key].count_minutes(), end=" ")
```

```

52
53
54 if __name__ == "__main__":
55     main("input.txt")
56

```

✓ Отличия от предыдущей посылки

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8	ok	45ms / 4.64Mb	—	
9	ok	45ms / 4.64Mb	—	
10	ok	45ms / 4.64Mb	—	
11	ok	44ms / 4.64Mb	—	
12	ok	45ms / 4.64Mb	—	
13	ok	45ms / 4.64Mb	—	
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28	ok	383ms / 4.64Mb	—	
29	ok	445ms / 6.98Mb	—	

№	Вердикт	Ресурсы	Баллы
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33	ok	424ms / 4.89Mb	—
34	ok	392ms / 4.64Mb	—
35	ok	423ms / 4.64Mb	—
36	ok	399ms / 4.64Mb	—
37	ok	414ms / 4.64Mb	—
38	ok	397ms / 4.64Mb	—
39	ok	412ms / 4.64Mb	—
40	ok	394ms / 4.64Mb	—
41	ok	411ms / 4.64Mb	—
42	ok	393ms / 4.64Mb	—
43	ok	405ms / 4.64Mb	—
44	ok	392ms / 4.51Mb	—
45	ok	405ms / 4.64Mb	—
46	ok	388ms / 4.64Mb	—
47	ok	403ms / 4.64Mb	—
48	ok	388ms / 4.64Mb	—
49	ok	402ms / 4.64Mb	—
50	ok	389ms / 4.64Mb	—
51	ok	398ms / 4.64Mb	—
52	ok	392ms / 4.64Mb	—
53	ok	397ms / 4.64Mb	—
54	ok	398ms / 4.64Mb	—
55	ok	396ms / 4.64Mb	—
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