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Hacker Cup 2018 Round 3
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see all

# Baking Cakes

문제 답안 제출 통계

## 문제 정보

| 문제 ID | 시간 제한 | 메모리 제한 | 제출 횟수 | 정답 횟수 (비율) |
|---|---|---|---|---|
| CAKES | 5000ms | 65536kb | 499 | 115 (23%) |
| 출제자 | 출처 | | 분류 | |
| VOCList | Stanford Local 2007 | | 보기 | |

## 문제

Tom's birthday is coming up, and you have been put in charge of baking cakes for his monstrous birthday party. However, you have a great number of cakes to make, and a very short amount of time, so you are not sure that you will even finish before the party!

You have a list of different cakes to make, each requiring a certain amount of time to bake. You also have exactly 3 ovens to bake the cakes in, and each oven can only bake one cake at a time. Assuming that the time required to take a cake out and put another one in is negligible, can you determine the smallest amount of time you will need to spend baking, given the list of cakes to make?

## 입력

The input test file will contain multiple cases, with each case on a single line. The line begins with an integer n (where 1 ≤ n ≤ 40), the number of cakes to bake. Following are n integers, t1, . . . , tn (where 1 ≤ ti ≤ 30), indicating the time in minutes required to bake each of your cakes. End-of-input is marked by a single line containing 0; do not process this line.

## 출력

For each test case, output on a single line the smallest amount of time, in minutes, that you need to bake all of your cakes.

## 예제 입력

```
1 30
3 15 10 20
5 6 7 8 9 10
0
```

## 예제 출력

```
30
20
15
```

## 노트

0개의 댓글이 있습니다.