

---

## Siamese Multiples

X85826\_en

---

Write a program that reads a positive integer  $n$ , followed by a sequence of positive integers. The program must report any *siamese multiple* of  $n$  found in the sequence. A *siamese multiple* of  $n$  is a number that is multiple of  $n$  and ends in the same digit than  $n$ . Siamese multiples of  $n$  found in the sequence are printed as output. At the end, the sum of all found siamese multiples is also printed. If the sequence contains no siamese multiples of  $n$ , the message "No siamese multiples were found" is printed.

### Input

The input is a positive integer followed by a sequence of integers.

### Output

The output is a message reporting each siamese multiple of  $n$  found in the sequence (see message format in the examples below), or the message "No siamese multiples were found" if the sequence does not contain any number with the required properties.

#### Sample input 1

```
6
45 18 9 12 22
24 36 99 86 66 72
```

#### Sample output 1

```
Found a siamese multiple: 36
Found a siamese multiple: 66
Sum of siamese multiples: 102
```

#### Sample input 2

```
23          12 78 92 46 121 212 9 253 128 88201d a siamese multiple: 253
```

#### Sample output 2

```
Sum of siamese multiples: 253
```

#### Sample input 3

```
7
21 49 63 14 27 112 999 127
```

#### Sample output 3

```
No siamese multiples were found
```

### Problem information

Author: ProAll professors

Generation: 2026-01-25T16:53:38.587Z

© Jutge.org, 2006–2026.

<https://jutge.org>