

---

**Powers of square matrices****X39269\_en**

---

Write a program that, given a square matrix  $M$  and a natural number  $n$ , computes  $M^n$ .

**Input**

The input consists of several cases. Each case consists of a natural number  $n \geq 0$  followed by a natural number  $m > 0$  and by  $m \times m$  integer numbers.

**Output**

For each case, print the elements of  $M^n$  in  $m$  lines following the format of the example. Print a line with 10 dashes after every matrix.

**Sample input 1**

```
2 4
1 -2 3 4
2 3 4 -5
-3 4 5 6
4 5 -6 7
3 4
1 -2 3 4
2 3 4 -5
-3 4 5 6
4 5 -6 7
```

**Sample output 1**

```
4 24 -14 60
-24 -4 68 -18
14 68 -4 40
60 18 -40 4
-----
334 308 -322 232
-308 218 360 206
322 360 54 -28
232 -206 28 -62
-----
```

**Problem information**

Author: Gabriel Valiente

Generation: 2026-01-25T15:51:39.919Z

© Jutge.org, 2006–2026.

<https://jutge.org>