Contest Duration: 2021-06-06(Sun) 17:30 (http://www.timeanddate.com/worldclock

/fixedtime.html?iso=20210606T2100&p1=248) - 2021-06-06(Sun) 19:10 (http://www.timeanddate.com/worldclock

/fixedtime.html?iso=20210606T2240&p1=248) (local time) (100 minutes)

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# F - Hanjo 2



Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 600 points

#### **Problem Statement**

We have a rectangular room that is H meters long and W meters wide.

We will fill this entire room with tatami (rectangular mats) that are 2 meters long and 1 meter wide, and hanjo (square mats) that are 1 meter long and 1 meter wide. Each tatami can be placed vertically or horizontally.

How many ways are there to fill the room?

We distinguish ways that match only after rotation or reflection.

Since the count can be enormous, find it modulo 998244353.

### **Constraints**

- $1 \le H \le 6$
- $1 \le W \le 10^{12}$

### Input

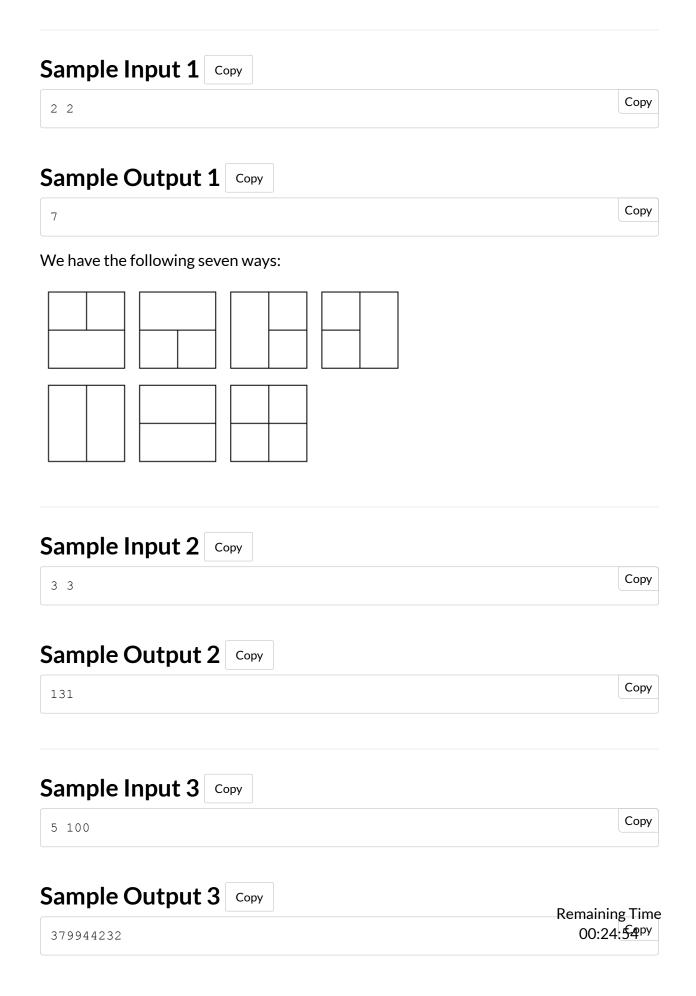
Input is given from Standard Input in the following format:

H W

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## **Output**

Print the answer.



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Be sure to find the count modulo 998244353.

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C++ (GCC 9.2	2.1)			•	
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Remaining Time 00:24:54