

8521 LOL

5 friends play LOL together. Every one should BAN one character and PICK one character. The enemy should BAN 5 characters and PICK 5 characters . All these 20 heroes must be different .

Every one can BAN any heroes by his personal washes . But he can only PICK heroes which he has bought .

Suppose the enemy can PICK or BAN any heroes. How many different ways are there satisfying the conditions?

For example, a valid way is :

- Player 1 : picks hero 1, bans hero 2
- Player 2 : picks hero 3, bans hero 4
- Player 3 : picks hero 5, bans hero 6
- Player 4 : picks hero 7, bans hero 8
- Player 5 : picks hero 9, bans hero 10
- Enemies pick heroes 11,12,13,14,15, ban heroes 16,17,18,19,20 .

Input

The input contains multiple test cases.(No more than 20)

In each test case. there's 5 strings $S[1]..S[5]$, respectively whose lengths are 100, For the i -th person if he has bought the j -th hero, the j -th character of $S[i]$ is '1', or '0' if not. The total number of heroes is exactly 100.

Output

For each test case, print the answer mod1000000007 in a single line .

Sample Input

```
0110011100011001001100011110001110001110
001010010111111110101010010011010000110
100011001001111101011
1000111101111110110100001101001101010001
1110010010111100011111101010000111010000
01011100001001011010
0100101100011110011100110110011100111100
010010011001111110101111110000001100011
10000110001100001110
111001010101000100011010001110101000101
0000110001111111110101010000000001111001
110110101110000010011
1000010011111110001101100000101001110100
0110001110100111111101101110100111110101
10101111011111011011
```

Sample Output

515649254