Problem C. Count Min Ratio

Input file:	*standard input*
Output file:	*standard output*
Time limit:	4 seconds
Memory limit:	1024 mebibytes

You have R red balls, B blue balls, and one green ball. You are going to arrange the balls in a row. The score of an arrangement is defined as follows:

- Let $l_{\mathrm{R}}, l_{\mathrm{B}}, r_{\mathrm{R}}, r_{\mathrm{B}}$ be the number of red/blue balls to the left/right of the green ball, respectively. Then, the score is the maximum integer x such that $l_{\mathrm{B}} \times x \leq l_{\mathrm{R}}$ and $r_{\mathrm{B}} \times x \leq r_{\mathrm{R}}$.

Find the sum of scores of all possible arrangements, modulo 998244353. Note that balls of the same color cannot be distinguished, thus two arrangements are considered different if and only if there is such an i that the color of the i-th ball in the first arrangement differs from that of the second.

Input

The first line contains integers R ($1 \leq R \leq 10^{18}$) and B ($1 \leq B \leq 10^{6}$).

Output

Print the answer.

Examples

standard input	standard output
10 3	8390
3 10	0
100 10	801171977
999999999999999999 999999	448294209