Problem J. Two Permutations

Input file:	*standard input*
Output file:	*standard output*
Time limit:	2 seconds
Memory limit:	256 mebibytes

Find the number of pairs (p, q) of permutations of length n such that $\sum_{i=1}^{n} \max(p_i, q_i) = k$.

As the answer may be large, find it modulo $10^9 + 7$.

Input

The only line contains two integers, n and k ($1 \le n \le 100$, $1 \le k \le n^2$).

Output

Print the answer modulo $10^9 + 7$.

Examples

standard input	*standard output*
2 4	2
3 7	12