

Problem C. Winter Contest

Source file name: Winter.c, Winter.cpp, Winter.java, Winter.py
 Input: Standard
 Output: Standard

Did you know that today is a very special day? No, not because of Winter Contest 2025, but because today is a *square day*, meaning that the year is a square number ($2025 = 45^2$), the month is a square number ($1 = 1^2$) and the day is a square number as well ($25 = 5^2$).

Year	Winter Contest	GCPC
2019	Jan 26	Jul 6
2020	Jan 25	Nov 21
2021	<i>N/A</i>	Jun 26
2022	Jan 29	Jun 25
2023	Jan 28	Jun 17
2024	Jan 27	Jun 22
2025	Jan 25	<i>TBA</i>

Figure 1. Dates of Winter Contests and GCPCs in the past few years. This year's Winter Contest is the only one on a square day.

Such square days are generally quite uncommon. In fact, this year is the first year in which it is possible to host Winter Contest on a square day, ever since the very first programming contests dating back to 1970 (and Winter Contest only dates back to 2005 anyway). To find out just how uncommon these special days are, given a range of years, compute the total number of square days that fall within that range.

Input

The input consists of:

- One line with two integers a and b ($1970 \leq a \leq b \leq 9999$), where a is the first year of the range and b is the last year.

Output

Output the number of square days for which the year is between a and b inclusive.

Example

Input	Output
2025 2025	15
2026 2115	0
1970 6400	540
5555 9999	375