|  |
| --- |
| **Título:** **Reseto** |
| **Planteamiento** |
| The sieve of Eratosthenes is a famous algorithm to find all prime numbers up to N. The algorithm is:  1. Write down all integers between 2 and N, inclusive. 2. Find the **smallest**number not already crossed out and call it P; P is prime. 3. Cross out P and all its multiples that **aren't already crossed out**.  4. If not all numbers have been crossed out, go to step 2.  Write a program that, given N and K, find the K-th integer to be crossed out. |
| **Descripción de Entrada** |
| The fisrt line contain the number of test cases. The integers N and K (2 ≤ K < N ≤ 1000). |
| **Descripción de Salida** |
| Output the K-th number to be crossed out. One bye test case. |
| **Ejemplo de Entrada** |
| 3 7 3 15 12 10 7 |
| **Ejemplo de Salida** |
| 6 7 9 |