# "Programming Basics" Exam

## 6. Barcode Generator

The equipment in the Christmas decoration shop gets broken. Items that contain **even numbers** in their barcode cannot be marked by cashiers. Your task is to write a program that **generates** all barcodes that do **NOT contain** even numbers in them.

### Input Data

### Two four-digit numbers indicate the range of barcodes you need to change.

* **First line** – four-digit number - the beginning of the range. **An integer in the range [1000…9999]**
* **Second line** – four-digit number - the end of the range. **An integer in the range [1000…9999]**

### Output Data

**All "barcodes"** that do **NOT contain an even number** in them, separated by a **space**, should be printed on the console.

### Sample Input and Output

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 2345  6789 | 3355 3357 3359 3375 3377 3379 3555 3557 3559 3575 3577 3579 3755 3757 3759 3775 3777 3779 5355 5357 5359 5375 5377 5379 5555 5557 5559 5575 5577 5579 5755 5757 5759 5775 5777 5779 | We take the **first, second, third, and fourth** digits of the two **four-digit numbers**, respectively from the first as the initial and the second as the final value. We check in the intervals between each of the digits of the first four-digit number and each of the digits of the second whether there is an even digit and if it exists we ignore it in the result. |
| 3256  6579 | 3357 3359 3377 3379 3557 3559 3577 3579 5357 5359 5377 5379 5557 5559 5577 5579 | |
| 1365  5877 | 1375 1377 1575 1577 1775 1777 3375 3377 3575 3577 3775 3777 5375 5377 5575 5577 5775 5777 | |