## K12-Generating Big Numbers II

You are given the count of each digits and you have to create a number with these available digits. Let the number be $X$. In $X$ each digit should not occupy any position which is divisible by the digit. 2 shouldn't occupy 2nd, 4th, 6th, 8 th ... positions and 7 shouldn't occupy 7th, 14th positions. Position of unit's place is 1 , hundreds' place is 3 . Suppose $X=$ abcdef, $f$ is in position 1 , $e$ is in position 2, $d$ is in position 3 , $a$ is in position 6.

Now Find the length of smallest $X$ possible while filling the remaining positions with zeros. Minimize the length of the number generated.

Example: Count of $2=2$, count of $4=2$.
$X$ can be 40242 or 20442 . But we need only the length of the number which is 5 .

## Input

The first line of input file contains $T$ which denotes the number of test cases. This is followed by $T$ lines where each of these $T$ lines contains 8 space separated integers which denotes the count of 2's, count of 3's, count of 4's ... up to count of 9's.

Note: count of 1's will not be given as 1 divides every position of the number and zeros can be placed in any position.
$T<=50$, count of each digit $<=20$.

## Output

The output should contain $T$ lines each line with the answer corresponding to a test case.

## Example

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Input:
2
20200000
2020202020202020
```


## Output:

5
160

