**Description**

With the new tax system, in Greece, people have to collect receipts and then sum them up. Here, you will help to identify valid receipts from their VAT numbers and then make the sum. A Greek VAT number is 8-digit or 9-digit number. In order to be sure that a VAT number (A8A7A6A5A4A3A2A1 or A9A8A7A6A5A4A3A2A1) is numerically valid we do all the following steps:

1) If length of VAT number is 8, then assume that it has a zero digit in front of it, and then continue with a 9 digit string.

2) S = Α1 \* 0 + Α2 \* 2 + Α3 \* 4 + Α4 \* 8 + Α5 \* 16 + Α6 \* 32 + Α7 \* 64 + Α8 \* 128 + Α9 \* 256

3) Y = S mod 11

4) If Y == 10 AND A1 == 0, VAT number is numerically valid

5) If Y == A1, VAT number is numerically valid

6) In any other case, VAT number is not valid

**Task**

You will be given a list of receipts (VAT number, amount in euro cents) and you are asked to create a program that will identify valid receipts from their VAT number and then return the sum of these receipts.

**Input**

The input file contains a list of receipts, containing VAT number and amount in euro cents in each line. A single empty line signifies the end of the list.

**Output**

The output file will contain the sum of all valid receipts, in euro cents, and a new line.

**Sample Input**

094185641 3929

092766360 900

030026340 850

092766360 5500

998198381 590

040933250 800

999517462 250

058302582 1410

052866929 160

998686837 570

998475585 3676

**Sample Output**

18635

**Sample Input with invalid VAT**

94185641 3929

92766360 900

30026340 850

92766360 5500

998198381 590

40933250 800

999517463 250

58302582 1410

52866929 160

998686837 570

998475585 3676

**Sample Output**

18385