A bank intends to design a program to display the denomination of an input amount, up to 5 digits. The available denomination with the bank are of rupees 1000, 500, 100, 50, 20, 10, 5, 2, and 1.

Design a program to accept the amount from the user and display the break-up in descending order of denomination. (i.e. preference should be given to the highest denomination available) along with the total number of notes. [Note: Only the denomination used should be displayed]. Also print the amount in words according to the digits.

# Example 1

INPUT : 14856

OUTPUT : ONE FOUR EIGHT FIVE SIX

|  |  |  |  |
| --- | --- | --- | --- |
| DENOMINATION : 1000 x | 14 | = | 14000 |
| 500 x | 1 | = | 500 |
| 100 x | 3 | = | 300 |
| 50 x | 1 | = | 50 |
| 5 x | 1 | = | 5 |
| 1 x | 1 | = | 1 |
| TOTAL |  | = | 14856 |
| TOTAL NUMBER OF NOTES |  | = | 21 |
| **Example 2** |  |  |  |
| INPUT : 6043  OUTPUT : SIX ZERO FOUR THREE |  |  |  |
| DENOMINATION : 1000 x | 6 | = | 6000 |
| 20 x | 2 | = | 40 |
| 2 x | 1 | = | 2 |
| 1 x | 1 | = | 1 |
| TOTAL |  | = | 6043 |
| TOTAL NUMBER OF NOTES |  | = | 10 |
| **Example 3** |  |  |  |
| INPUT : 235001 |  |  |  |
| OUTPUT : INVALID AMOUNT |  |  |  |