

53237

One day, Jojo wants to send a secret message to his friend. Jojo has a sentence consists of alphabet and whitespace characters. Jojo wants to change all the alphabets into capital letter, then change some alphabets into numbers.

- I = 1
- \bullet R = 2
- E = 3
- A = 4
- S = 5
- G = 6
- T = 7
- B = 8
- \bullet P = 9
- O = 0

Help Jojo to change his sentence.

Format Input

Input consists of 1 sentence S in one line. The sentence only contains alphanumeric character and whitespace.

Format Output

Output one line of sentence, the conversion result from the initial sentence.

Constraints

• $1 \le |S| \le 10000$

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Sample Input 1 (standard input)

Halo saya Jojo

Sample Output 1 (standard output)

H4L0 54Y4 J0J0

Sample Input 2 (standard input)

KaMu PaStI BiSa

Sample Output 2 (standard output)

K4MU 94571 8154

Sample Input 3 (standard input)

JANGAN MENYERAH YA

Sample Output 3 (standard output)

J4N64N M3NY324H Y4

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Suatu hari, Jojo mau mengirimkan pesan rahasia ke temannya. Jojo memiliki sebuah kalimat yang terdiri dari karakter huruf alfabet dan spasi. Jojo ingin merubah semua huruf alfabet menjadi kapital, kemudian berberapa huruf menjadi angka.

- I = 1
- \bullet R = 2
- E = 3
- A = 4
- \bullet S = 5
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- B = 8
- \bullet P = 9
- O = 0

Bantulah Jojo untuk mengubah kalimat yang ia punya.

Format Input

Input terdiri dari 1 buah baris kalimat S, kalimat yang mengandung karakter alfanumerik dan spasi.

Format Output

Output yang dikeluarkan merupakan satu baris kalimat setelah diubah sesuai ketentuan.

Constraints

• $1 \le |S| \le 10000$

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Sample Input 1 (standard input)

Halo saya Jojo

Sample Output 1 (standard output)

H4L0 54Y4 J0J0

Sample Input 2 (standard input)

KaMu PaStI BiSa

Sample Output 2 (standard output)

K4MU 94571 8154

Sample Input 3 (standard input)

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Sample Output 3 (standard output)

J4N64N M3NY324H Y4

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