Some *C*++ data types, their format specifiers, and their most common bit widths are as follows:

- *Int ("%d"):* 32 Bit integer
- Long ("%ld"): 64 bit integer
- *Char ("%c"):* Character type
- *Float ("%f"):* 32 bit real value
- *Double ("%lf"):* 64 bit real value

# Reading

To read a data type, use the following syntax:

```
scanf("`format_specifier`", &val)
```

For example, to read a *character* followed by a *double*:

```
char ch;
double d;
scanf("%c %lf", &ch, &d);
```

For the moment, we can ignore the spacing between format specifiers.

#### **Printing**

To print a data type, use the following syntax:

```
printf("`format_specifier`", val)
```

For example, to print a *character* followed by a *double*:

```
char ch = 'd';
double d = 234.432;
printf("%c %lf", ch, d);
```

**Note:** You can also use *cin* and *cout* instead of *scanf* and *printf*; however, if you are taking a million numbers as input and printing a million lines, it is faster to use *scanf* and *printf*.

#### **Input Format**

Input consists of the following space-separated values: int, long, char, float, and double, respectively.

## **Output Format**

Print each element on a new line in the same order it was received as input. Note that the floating point value should be correct up to 3 decimal places and the double to 9 decimal places.

## Sample Input

```
3 12345678912345 a 334.23 14049.30493
```

#### **Sample Output**

```
3
12345678912345
a
334.230
14049.304930000
```

# **Explanation**

Print *int* **3**, followed by *long* **12345678912345**, followed by *char* **a**, followed by *float* **334.23**, followed by *double* **14049.30493**.