More Exercise: C# Intro and Basic Syntax

Problems for exercises and homework for the "C# Fundamentals" course @ SoftUni You can check your solutions in Judge

1. Sort Numbers

Create a program that receives three real numbers and sorts them in descending order. Print each number on a new line.

Examples

Input	Output				
2	3				
2	2				
3	1				
-2 1	3				
1	1				
3	-2				
0	2				
0	0				
2	0				

2. English Name of the Last Digit

Create a method that returns the English spelling of the last digit of a given number. Write a program that reads an integer and prints the returned value from this method.

Examples

Input	Output
512	two
1	one
1643	three

3. Gaming Store

Create a program, which helps you buy the games. The valid games are the following games in this table:

Name	Price
OutFall 4	\$39.99
CS: OG	\$15.99
Zplinter Zell	\$19.99
Honored 2	\$59.99
RoverWatch	\$29.99











RoverWatch Origins Edition \$39

On the first line, you will receive your **current balance** – a **floating-point** number in the range **[0.00...5000.00]**.

Until you receive the command "Game Time", you have to keep buying games. When a game is bought, the user's balance decreases by the price of the game.

Additionally, the program should obey the following conditions:

- If a game the user is trying to buy is **not present** in the table above, print "**Not Found**" and **read the next**
- If at any point, the user has \$0 left, print "Out of money!" and end the program.
- Alternatively, if the user is trying to buy a game that they can't afford, print "Too Expensive" and read the next line.
- If the game exists and the player has the money for it, print "Bought {nameOfGame}".

When you receive "Game Time", print the user's remaining money and total spent on games, rounded to the 2nd decimal place.

Examples

Input	Output				
120 RoverWatch Honored 2 Game Time	Bought RoverWatch Bought Honored 2 Total spent: \$89.98. Remaining: \$30.02				
19.99 Reimen origin RoverWatch Zplinter Zell Game Time	Not Found Too Expensive Bought Zplinter Zell Out of money!				
79.99 OutFall 4 RoverWatch Origins Edition Game Time	Bought OutFall 4 Bought RoverWatch Origins Edition Total spent: \$79.98. Remaining: \$0.01				

4. Reverse String

Create a program which reverses a string and prints it on the console.

Examples

Input	Output
Hello	olleH
SoftUni	inUtfoS
1234	4321

5. Messages

Create a program, which emulates typing an SMS, following this guide:













1	2	3	
	abc	def	
4	5	6	
ghi	jkl	mno	
7	8	9	
pqrs	tuv	wxyz	
	0		
	space		

Following the guide, 2 becomes 'a', 22 becomes 'b' and so on.

Examples

Input	Output	Input	ut Output		Input	Output
5	hello	9	hey there		7	meet me
44		44			6	
33		33			33	
555		999			33	
555		0			8	
666		8			0	
		44			6	
		33			33	
		777				
		33				

Hints

- A naive approach would be to just put all the possible combinations of digits in a giant **switch** statement.
- A cleverer approach would be to come up with a mathematical formula, which converts a number to its **alphabet** representation:

Digit	2	3	4	5	6	7	8	9
Index	0 1 2	3 4 5	6 7 8	9 11 12	13 14 15	16 17 18 19	20 21 22	23 24 25 26
Letter	a b c	def	ghi	j k 1	m n o	pqrs	tuv	w x y z

- Let's take the number **222** (c) for example. Our algorithm would look like this:
 - Find the number of digits the number has, e.g. 222 → 3 digits
 - o Find the main digit of the number, e.g. 222 → 2
 - Find the offset of the number. To do that, you can use the formula: (main digit 2) * 3
 - If the main digit is 8 or 9, you need to add 1 to the offset, since the digits 7 and 9 have 4 letters
 - \circ Finally, find the **letter index** (a \rightarrow 0, c \rightarrow 2, etc.). To do that, you can use the following formula: (offset + digit length - 1).
 - After you've found the letter index, you can just add that to the ASCII code of the lowercase letter 'a' (97)











