Exercise: JS Basic Syntax, Conditional Statements and Loops

1. Ages

Write a function that determines whether based on the given age a person is: baby, child, teenager, adult, elder. The input comes as **single number parameter**. The bounders are:

- **0-2 – baby;**
- **3-13 – child;**
- **14-19 – teenager;**
- **20-65 – adult;**
- **>=66 – elder;**
- All the values are **inclusive**.

Examples

Input	Output
`20`	`adult`
`1`	`baby`
`100`	`elder`

2. Rounding

Write a JS function that rounds numbers to specific precision.

The **input** comes as **two numbers**. The first value is the number to be rounded and the second is the precision (significant decimal places). If a precision is passed, that is more than **15** it should automatically be reduced to **15**.

Remove trailing zeroes, if any (you can use **`parseFloat()`**)

The **output** should be printed to the console. Do not print insignificant decimals.

Examples

Input	Output
`3.14159265358979323846 26433832795,2`	`3.14`

Input	Output
`10.5,3`	`10.5`

3. Division

You will be given a number and you must return whether that number is divisible by the following numbers**: 2, 3, 6, 7**, or **10.** You should **always take the bigger division**. If the number is divisible by both **2** and **3** it is also divisible by **6** and you should print only the division by 6. If a number is divisible by **2** it is sometimes also divisible by **10** and you should print the division by 10. If the number is not divisible by any of the given numbers print "**Not divisible".** Otherwise print "**The number is divisible by {number}"**.

Examples

Input	Output
30	The number is divisible by 10
15	The number is divisible by 3
12	The number is divisible by 6
1643	Not divisible

4. Vacation

You are given a **group of people**, **type of the group**, and **day of the week** they are going to stay. Based on that information calculate how much they have to pay and print that price on the console. Use the table below. In each cell is the price for a **single person**. The output should look like that:
"**Total price: {price}**". The price should be formatted to the second decimal point.

	Friday	Saturday	Sunday
Students	8.45	9.80	10.46
Business	10.90	15.60	16
Regular	15	20	22.50

There are also discounts based on some conditions:

- **Students –** if the group is bigger than or equal to 30 people you should reduce the **total** price by 15%
- **Business –** if the group is bigger than or equal to 100 people **10** of them can stay **for free.**
- **Regular –** if the group is bigger than or equal 10 and less than or equal to 20 reduce the **total** price by 5%

You should reduce the prices in that EXACT order

Examples

Input	Output

30, "Students", "Sunday"	Total price: 266.73
40, "Regular", "Saturday"	Total price: 800.00

5. Leap Year

Write a JS function to check whether a year is leap. Leap years are either divisible by 4 but not by 100 or are divisible by 400. Return the result like examples below:

Examples

Input	Output
1984	yes
2003	no
4	yes