

Space Odyssey	Aachen	Code	May the Force be with You	Numbers
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

# Space Odyssey

100

After Armstrong, this man was the second person to walk on the moon.

Solution

Done!  
Home

Space Odyssey

100

Who is Buzz Aldrin?

Solution

Done!  
Home

# Space Odyssey

200



This soviet dog  
became one of the  
first animals in space.

Solution

Done!  
Home

Space Odyssey

200

Who is Laika?

Solution

Done!  
Home

# Space Odyssey

300



It took quite some  
effort to take a selfie  
of this guy.

Solution

Done!  
Home

Space Odyssey

300

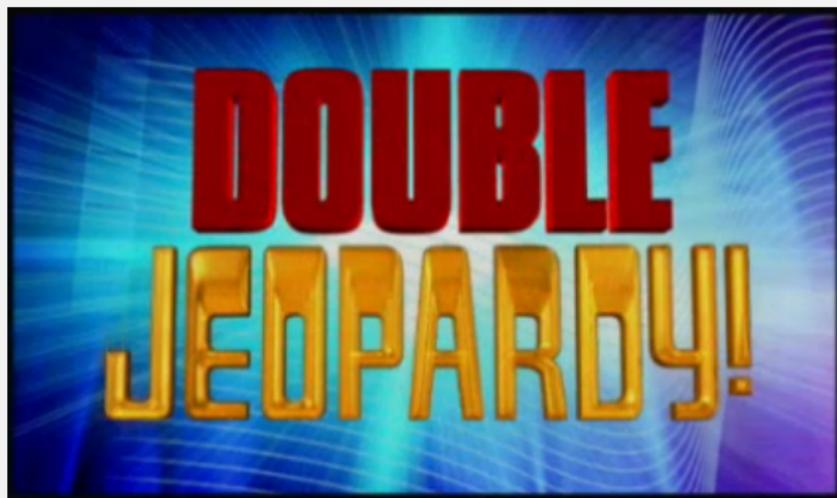
What is the Curiosity Rover?

Solution

Done!  
Home

Space Odyssey

DOUBLE! 400



Solution

Done!  
Home

# Space Odyssey

DOUBLE! 400

In 2003, this space shuttle reentry ended in a disaster due to parts of the insulation breaking off.

Solution

Done!  
Home

**Space Odyssey**

**DOUBLE! 400**

What is the Space Shuttle Columbia?

**Solution**

**Done!  
Home**

# Space Odyssey

# 500

Founded by the Tesla Motors CEO, this company achieved the first vertical landing of a first stage.

## Solution

## Done! Home

Space Odyssey

500

What is SpaceX?

Solution

Done!  
Home

# Aachen

# 100



What a nice ceiling this building has...

## Solution

## Done! Home

Aachen

100

What is Aachen cathedral?

Solution

Done!  
Home

# Aachen

# 200



Parts of this building date back to Charlemagne, whose price is rewarded here once a year.

## Solution

## Done! Home

Aachen

200

What is Aachen City Hall?

Solution

Done!  
Home

# Aachen

# 300



Drunk husbands used this guy as an excuse to come home late.

# Solution

# Done! Home

Aachen

300

What is the Bahkauv?

Solution

Done!  
Home

# Aachen

# 400



You probably don't want to see this guy on the market, especially not if you sell chicken.

# Solution

# Done! Home

Aachen

400

What is the Hühnerdieb?

Solution

Done!  
Home

# Aachen

# 500



It is one of Aachen's oldest buildings and can be found on the market square.

# Solution

# Done! Home

Aachen

500

What is Löwenstein house?

Solution

Done!  
Home

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## FUNCTION F(n)

```
1: if  $n \leq 1$  then  
2:   return  $n$   
3: else  
4:   return  $F(n - 1) + F(n - 2)$   
5: end if
```

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**Code**

**100**

What is the Fibonacci Algorithm?

**Solution**

**Done!**  
**Home**

**Code**

**200**

This algorithm gets you from the time domain to the frequency domain.  
P.S.: It's FAST!

**Solution**

**Done!  
Home**

**Code**

**200**

What is the FFT?

**Solution**

**Done!**  
**Home**

Code

300

Solution

Done!  
Home

Code

300

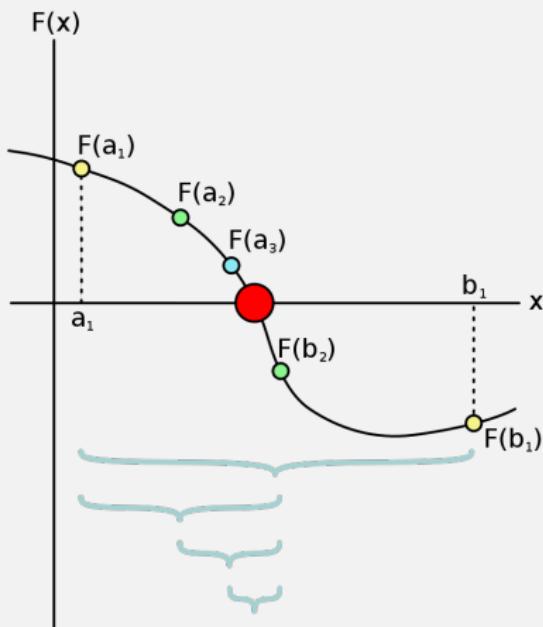
What is Mergesort?

Solution

Done!  
Home

# Code

# 400



# Solution

# Done! Home

**Code**

**400**

What is the Bisection Algorithm?

**Solution**

**Done!**  
**Home**

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```
1: for  $k = 1 \cdots n$  do
2:   for  $i = k + 1 \cdots n$  do
3:      $m := A[i, k] / A[k, k]$ 
4:     for  $j = k + 1 \cdots n$  do
5:        $A[i, j] := A[i, j] - A[k, j] * m$ 
6:     end for
7:      $A[i, k] := 0$ 
8:   end for
9: end for
```

---

**Code**

**500**

What is the Gauss-Algorithm?

**Solution**

**Done!**  
**Home**

**May the Force be  
with You**

**100**

Not only does this force pulls you towards earth, it also pulls earth towards you, isn't that cool?

**Solution**

**Done!  
Home**

**May the Force be  
with You**

**100**

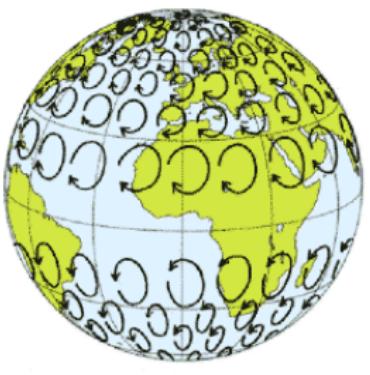
What is gravitation?

**Solution**

**Done!  
Home**

# May the Force be with You

200



On the large scale, this force influences the atmospheric behavior, even snipers and other long-distance shooters have to take it into account.

Solution

Done!  
Home

May the Force be  
with You

200

What is the Coriolis effect?

Solution

Done!  
Home

# May the Force be with You

300

It's the force **F** acting on a particle of electric charge  $q$  with instantaneous velocity **v**, due to an external electric field **E** and magnetic field **B**

$$\mathbf{F} = q(\mathbf{E} + \mathbf{v} \times \mathbf{B}).$$

Solution

Done!  
Home

May the Force be  
with You

300

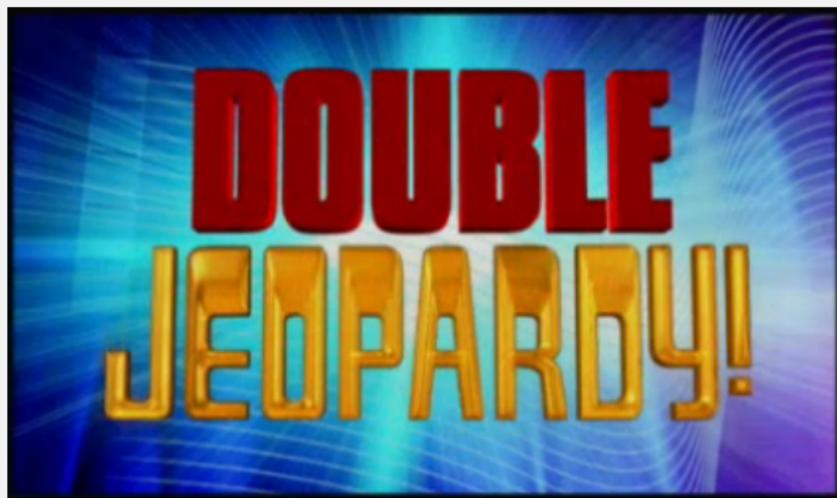
What is the Lorentz force?

Solution

Done!  
Home

May the Force be  
with You

DOUBLE! 400



Solution

Done!  
Home

**May the Force be  
with You**

**DOUBLE! 400**

This effect allows tennis, soccer and other ball sport player to add spin to their gaming device

**Solution**

**Done!  
Home**

May the Force be  
with You

DOUBLE! 400

What is the Magnus effect?

Solution

Done!  
Home

# May the Force be with You

500

A law of physics that describes force interacting between static electrically charged particles.

$$F = k \frac{|q_1 q_2|}{r^2}.$$

Solution

Done!  
Home

May the Force be  
with You

500

What is the Coulomb Force?

Solution

Done!  
Home

**Numbers**

**100**

$$\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$$

**Solution**

**Done!**  
**Home**

**Numbers**

**100**

What is  $e$ ?

**Solution**

**Done!**  
**Home**

**Numbers**

**200**

$$e^{i\pi} - 1$$

**Solution**

**Done!**  
**Home**

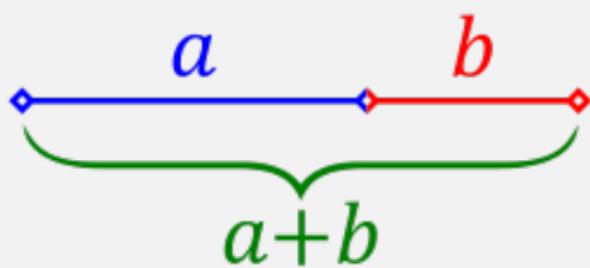
**Numbers**

**200**

What is zero?

**Solution**

**Done!**  
**Home**



$a+b$  is to  $a$  as  $a$  is to  $b$



**Numbers**

**300**

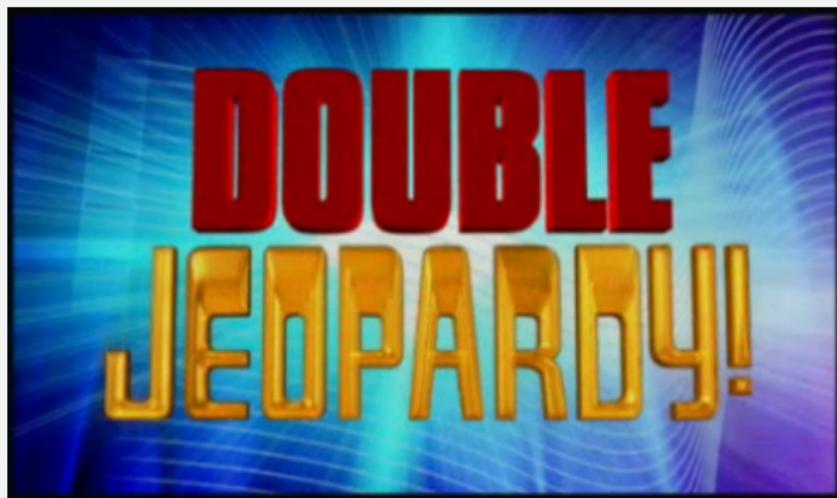
What is the Golden Ratio ( $\approx 1.618$ )?

**Solution**

**Done!**  
**Home**

Numbers

DOUBLE! 400



Solution

Done!  
Home

**Numbers**

**DOUBLE! 400**

$$\frac{\rho v L}{\eta}$$

**Solution**

**Done!  
Home**

# Numbers

**DOUBLE! 400**

What is the Reynolds number?

**Solution**

**Done!**  
**Home**

**Numbers**

**500**

42

**Solution**

**Done!**  
**Home**

**Numbers**

**500**

What is the answer to the Ultimate Question of Life, the Universe, and Everything?

**Solution**

**Done!**  
**Home**