

ENGLISH TENSES



Я ПРОЧИТАЛ КНИГУ

КНИГА БЫЛА ПРОЧИТАНА МНОЙ



I READ THE BOOK

THE BOOK WAS READ BY ME



ACTIVE TENSE

PASSIVE TENSE



ACTIVE TENSES

	Simple (Indefinite)	Continuous (Progressive)	Perfect Continuous (Perfect Progressive)
Past			
Present	!!!		
Future			
Future-in-the-past			



ACTIVE TENSES

	Simple (Indefinite)	Continuous (Progressive)	Perfect	Perfect Continuous (Perfect Progressive)
Past				
Present	S + V1 + O			
Future				
Future-in-the-past				



I EAT – Я EM YOU EAT — ТЫ ЕШЬ YOU EAT - ВЫ ЕДИТЕ Y'ALL EAT — ВЫ ЕДИТЕ WE EAT – МЫ ЕДИМ ТНЕҮ ЕАТ – ОНИ ЕДЯТ



HE EATS – OH ECT
SHE EATS – OHA ECT
IT EATS – OHO ECT



I DON'T EAT – 9 HE EM SHE DOESN'T EAT – OHA HE ECT



DON'T YOU EAT — ТЫ НЕ ЕШЬ? DOESN'T SHE EAT — ОНА НЕ ECT?



PRESENT SIMPLE 1) РЕГУЛЯРНЫЕ ДЕЙСТВИЯ

I OFTEN WATCH YOUTUBE

ANNA STUDIES ENGLISH EVERY SATURDAY



2) ДЕЙСТВИЕ В НАСТОЯЩЕМ

WE LIVE IN KURGAN

YOU LEARN ENGLISH



3) ОБЩЕИЗВЕСТНЫЕ ФАКТЫ

THE EARTH IS ROUND

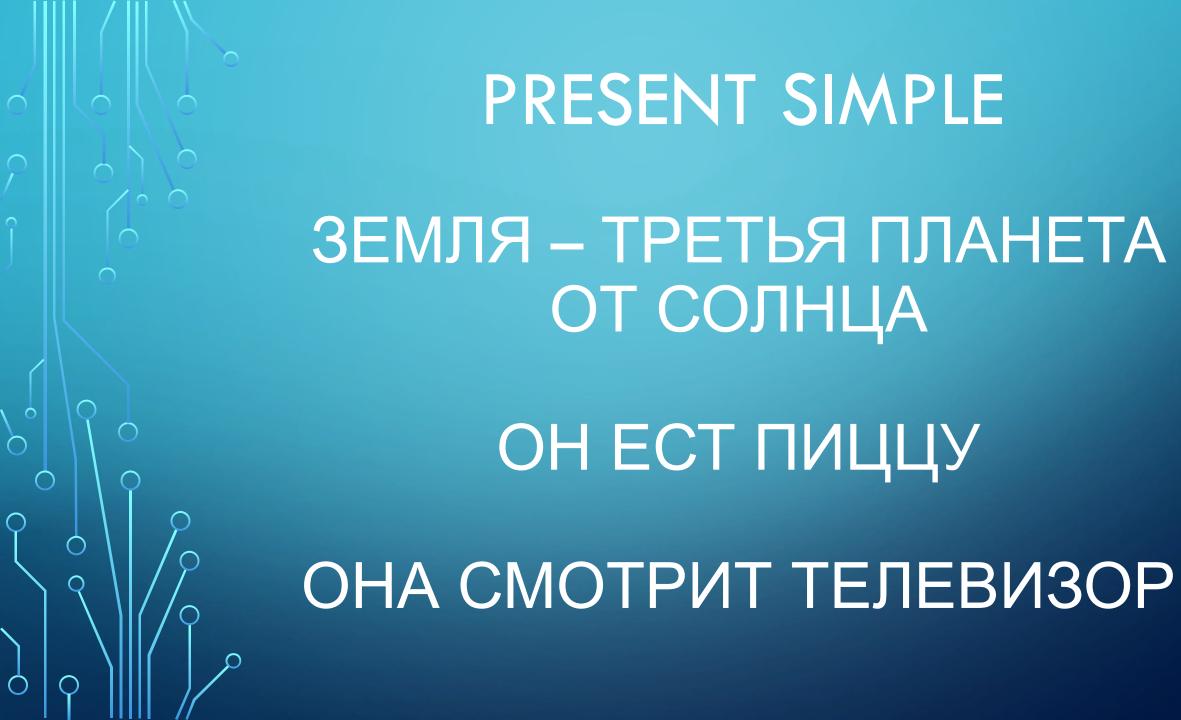
ONE BYTE IS EIGHT BITS



SHE EATS AN APPLE YOU PLAY THE GAME HE LOVES HER SHE DOESN'T LOVE HIM THEY ARE NOT HAPPY HE DRINKS BEER SHE COMES TO HER MUM



THE BEER TASTES AWFUL MUM TALKS TO HER HE SENDS HER FLOWERS SHE LIKES FLOWERS VERY MUCH SHE FORGIVES HIM THEY ARE IN LOVE AGAIN THE STORY ENDS HERE



PRESENT SIMPLE ОНИ УЧАТСЯ В КОЛЛЕДЖЕ

Я ХОЖУ НА РАБОТУ КАЖДЫЙ ДЕНЬ

ОНА ПРИНОСИТ МНЕ КОФЕ КАЖДОЕ УТРО

PRESENT SIMPLE OHUHE УЧАТСЯВ КОЛЛЕДЖЕ

Я НЕ ХОЖУ НА РАБОТУ КАЖДЫЙ ДЕНЬ

ОНА НЕ ПРИНОСИТ МНЕ КОФЕ КАЖДОЕ УТРО



ХОЖУ ЛИ Я НА РАБОТУ КАЖДЫЙ ДЕНЬ?

ПРИНОСИТ ЛИ ОНА МНЕ КОФЕ КАЖДОЕ УТРО?



A WORLD OF MATHEMATICS



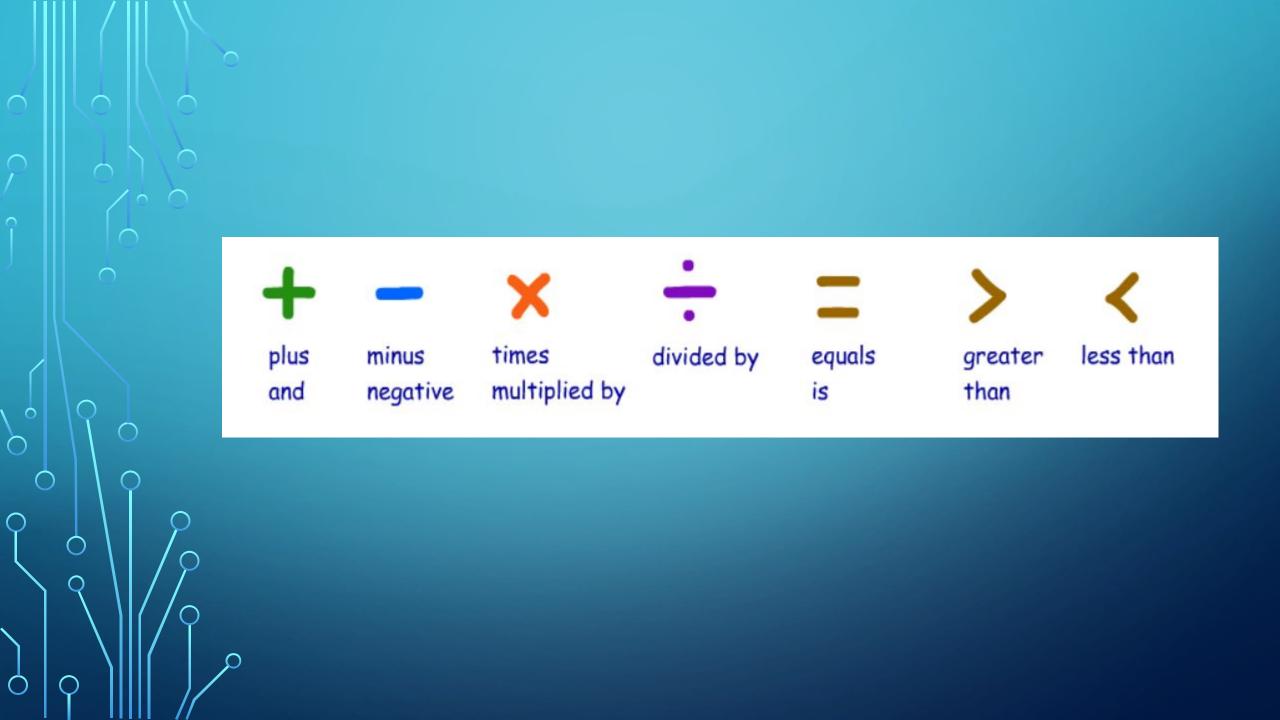
NUMBER

ЧИСЛО



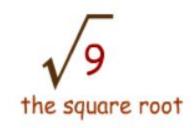
DIGIT

ЦИФРА





5² squared 2¹⁰ to the 10th power





$$1 + 2 = 3$$

$$9 + 8 = 17$$

$$23 + 46 = 69$$

 $\sqrt{9} = 3$

 $5^2 = 25$

 $2^3 = 8$

16 > 14

23 < 25

 $2^{10} = 1024$

$$7 \times 3 = 21$$

$$8 \times 9 = 72$$

$$30 \times 4 = 120$$

$$8-2 = 6$$

$$16-7 = 9$$

$$30-45 = -15$$

$$6/2 = 3$$

$$72/9 = 8$$

$$100 / 4 = 25$$



$$x+3=7$$

$$x^{2}+6x+8=0$$

$$x^{3}-5x^{2}+12=0$$

$$x^{4}+4x^{3}+6x^{2}+4x+1=0$$

$$(x+1)^{4}=0$$

$$(x+1)^{4}\cdot(x-1)^{4}=10$$

$$x + y = 3$$

$$x^{2} + xy + y^{2} = 0$$

$$(x - y)^{10} = (y - x)^{10}$$

$$\frac{x - y}{y - x} > \frac{y - x}{x - y}$$

$$\frac{(x - y)^{2}}{(y - x)^{3}} < \frac{x^{2}}{y^{3}}$$

$$f(n) = \begin{cases} \frac{n}{2} & \text{if } n \text{ is even} \\ 3n+1 & \text{if } n \text{ is odd} \end{cases}$$

COLLATZ CONJECTURE

$$3 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

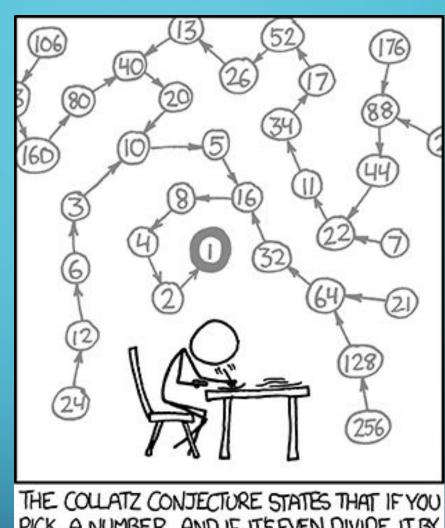
$$7 \rightarrow 22 \rightarrow 11 \rightarrow 34 \rightarrow 17 \rightarrow 52 \rightarrow 26 \rightarrow 13 \rightarrow 40 \rightarrow 20 \rightarrow 10 \rightarrow \dots$$

$$9 \rightarrow \dots$$

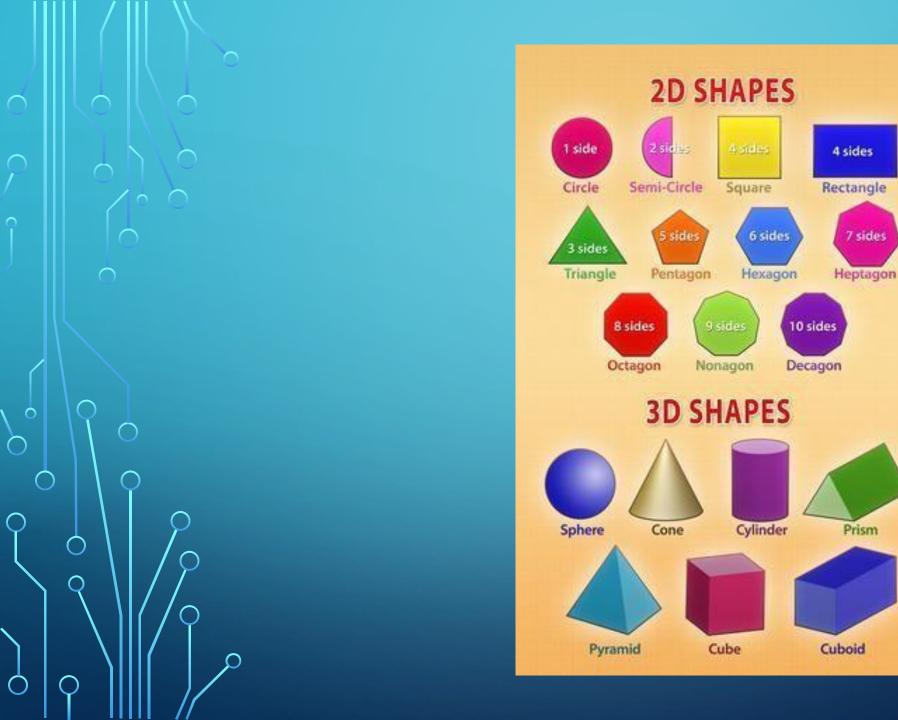
$$29 \rightarrow \dots$$

$$39 \rightarrow \dots$$

2200	1,524675,792578,031698	509154,959181,631323	1,016450,528385,354465	2,032901,056770,708930	696332,576119,618671	1,357746,557817,683529	2,695123,755483,442411	933024,775881,251817
2208	1,803876,225354,808991	623592,474336,403199	1,202584,150236,539327	415728,316224,268799	801722,766824,359551	277152,210816,179199	554304,421632,358398	1,076595,954863,62793
2216	2,137927,378198,292137	739072,562176,477865	1,435461,273151,503913	492715,041450,985243	985430,082901,970486	1,903695,182563,517095	656953,388601,313657	1,304150,997615,89303
2224	2,538260,243418,022793	869433,998410,595359	1,692173,495612,015195	583958,567645,612139	1,128115,663741,343463	2,167702,832285,351679	4,335405,664570,703358	1,545660,441618,836193
2232	3,008308,436643,582569		2,005538,957762,388379	4,011077,915524,776758	1,344227,109014,302703	2,674051,943683,184505	896151,406009,535135	1,792302,812019,070270
2240	597434,270673,023423	1,194868,541346,046846	398289,513782,015615	796579,027564,031230	265526,342521,343743	531052,685042,687486	1,062105,370085,374972	354035,123361,791657
2248	708070,246723,583314	236023,415574,527771	472046,831149,055542	157348,943716,351847	314697,887432,703694	104899,295810,901231	209798,591621,802462	419597,183243,604924
2256	839194,366487,209848	279731,455495,736617	559462,910991,473233	1,118925,821982,946466	372975,273994,315489	745950,547988,630977	1,491901,095977,261954	497300,365325,753985
2264	994600,730651,507969	1,942656,053739,808303	663067,153767,671979	1,326134,307535,343958	2,590208,071653,077737	884089,538356,895975	1,768179,076713,791945	589393,025571,263983
2272	1,178786,051142,527963	2,357572,102285,055926	785857,367428,351975	1,571714,734856,703950	539483,373894,066267	1,047809,823237,802633	2,095619,646475,605266	4,176412,422033,285247
2280	1,397079,764317,070177	2,794159,528634,140354	931386,509544,713451	1,862773,019089,426902	3,712366,597362,920219	1,278775,404785,934855	2,474911,064908,613479	
2288	1,655798,239190,601691	3,299881,419878,151305		2,199920,946585,434203	4,399841,893170,868406		2,933227,928780,578937	
2296	1,955485,285853,719291	3,910970,571707,438582		2,607313,714471,625721		1,810127,532127,289191	3,488760,075990,074361	
2304	2,413503,376169,718921	4,635224,381282,890171					4,120199,450029,235707	
2312	2,838518,008028,959903			3,784690,677371,946537				
2320				4,520144,802205,166831		3,013429,868136,777887		2,008953,245424,518591
2328	4,017906,490849,037182	1,339302,163616,345727	2,678604,327232,691454			3,571472,436310,255273		
2336	4,761963,248413,673697							



THE COLLATZ CONJECTURE STATES THAT IF YOU PICK A NUMBER, AND IF IT'S EVEN DIVIDE IT BY TWO AND IF IT'S ODD MULTIPLY IT BY THREE AND ADD ONE, AND YOU REPEAT THIS PROCEDURE LONG ENOUGH, EVENTUALLY YOUR FRIENDS WILL STOP CALLING TO SEE IF YOU WANT TO HANG OUT.







RADIUS DIAMETER CIRCUMFERENCE



LENGTH

WIDTH

HEIGHT



VOLUME

SURFACE AREA



WHAT IS THE VOLUME OF A CIRCLE?



WHAT IS THE VOLUME OF A SPHERE?



WHAT IS THE CIRCUMFERENCE OF A CIRCLE?



WHAT IS THE VOLUME OF A CYLINDER?



WHAT IS SURFACE AREA OF A CUBOID?



WHAT IS VOLUME OF A CUBOID?



WHAT IS VOLUME OF A CUBE?





EVERYTHING IN MATHEMATICS WAS INVENTED A LONG TIME AGO?

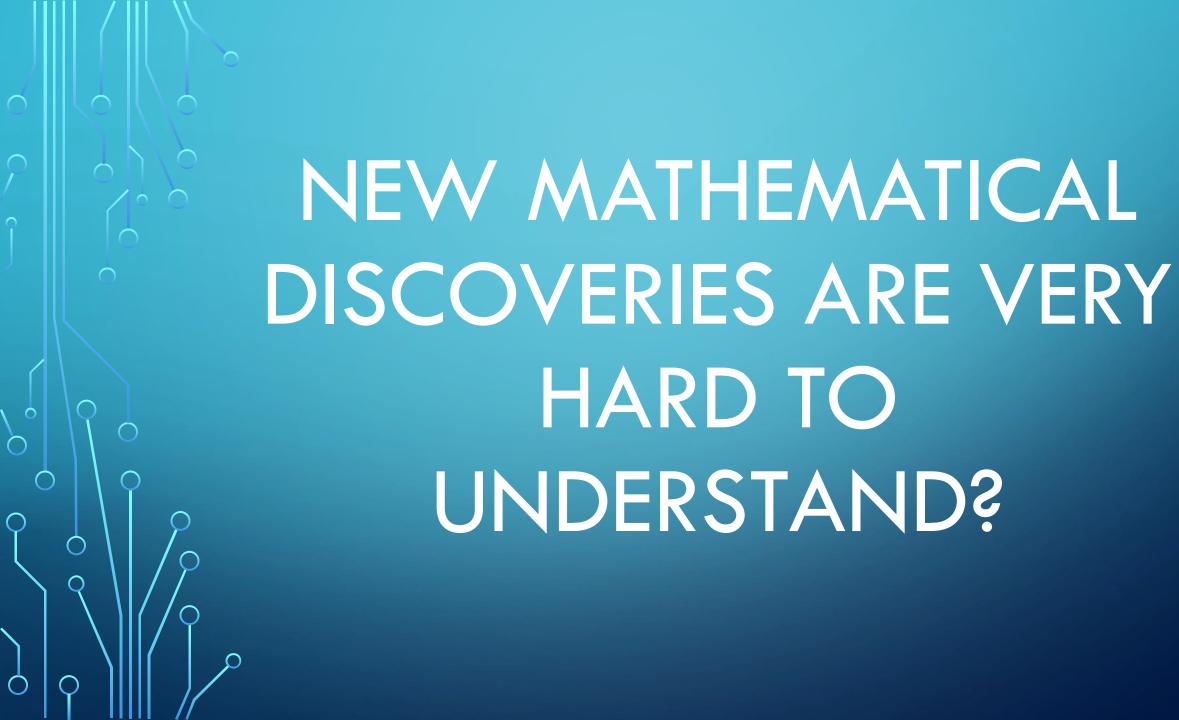


WHEN INTEGRALS WERE INVENTED?



NEWTON, LEIBNIZ

1675



THE MAP OF MATHEMATICS CARDINAL NUMBERS OCTONION QUATERNION CRYPTOGRAPHY COMPUTER LEARNING THEORY OF [eo,e,ez,ez,ez,ez,ez,ez,ez] a+bi+cj+dk FOUNDATIONS ALEPH NULL SCIENCE COMPUTATION FUNDAMENTAL 00011BO COMPLEX RULES EXPONENTIAL NUMBERS CONSISTENT SET 3, 1, 4+31,-41 MATHEMATICAL PRIME NUMBERS OF AXIOMS? LOGIC 3,11,47,907 REAL 1331 RATIONAL COMPLEXITY GODEL NUMBERS while awake: P = 9 INCOMPLETENESS THEORY INFINITY do_science() THEOREMS -4π,JZ, e -7, ½, 2.32 SET THEORY if self. tired () NUMBER PROBABILITY CATEGORY avake= False INTEGERS THEORY L.repair_brain() COTTALIATION NATURAL .-2,-1,0,1,2... COMBINATORICS NUMBERS STATISTICS PARTITION THEORY P(AIB) = P(BIA)P(A) TREE MATHEMATICAL FINANCE LINEAR ALGEBRA GROUP GRAPH MATHEMATICAL ORDER MATRICES ALGEBRA EQUATION GAME THEORY c.62.8 MEASURE x2-9x-36=0 THEORY PERMUTATION (x+3)(x-12)=0 ECONOMICS STRUCTURES PURE 50,000 BCE GREECE MATHEMATICS 600-300 BCE APPLIED TOPOLOGY MATHEMATICS DIFFERENTIAL NUMERICAL GEOMETRY GEOMETRY ENGINEERING CHANGES LHOLE (GENUS 1) ANALYSIS MATHEMATICAL COMPLEX FRACTAL PHYSICS ANALYSIS GEOMETRY CALCULUS TRIGONOMETRY MATHEMATICAL DYNAMICAL CHEMISTRY SYSTEMS CONTROL GRADIENT = dy FLUID FLOW THEORY BIOMATHEMATICS CHAOS THEORY INTEGRAL VECTOR PHYSICS

BY DOMINIC WALLIMAN @ 2017

YOUTUBE: THE MAP OF MATHEMATICS



POINCARE CONJECTURE 1904-2006



GRIGORI PERELMAN

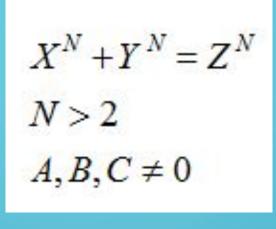
$X^2 + Y^2 = Z^2$

$$3^2 + 4^2 = 5^2 \rightarrow 9 + 16 = 25$$

 $5^2 + 12^2 = 13^2 \rightarrow 25 + 144 = 169$

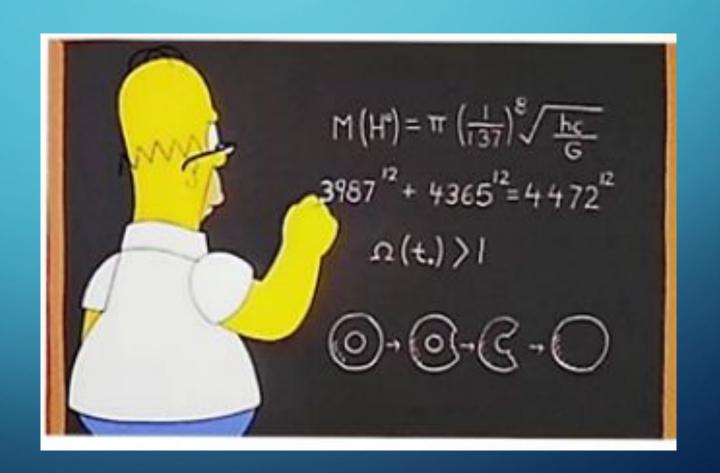


$$X^3 + Y^3 = Z^3$$



PIERRE DE FERMAT 1637

SIMPSONS



SIMPSONS

```
 1782^{12} + 1841^{12} = 2\,541\,210\,258\,614\,589\,176\,288\,669\,958\,142\,428\,526\,657 \approx 2,541\,210\,259\cdot 10^{39}, \\ 1922^{12} = 2\,541\,210\,259\,314\,801\,410\,819\,278\,649\,643\,651\,567\,616 \approx 2,541\,210\,259\cdot 10^{39}.
```

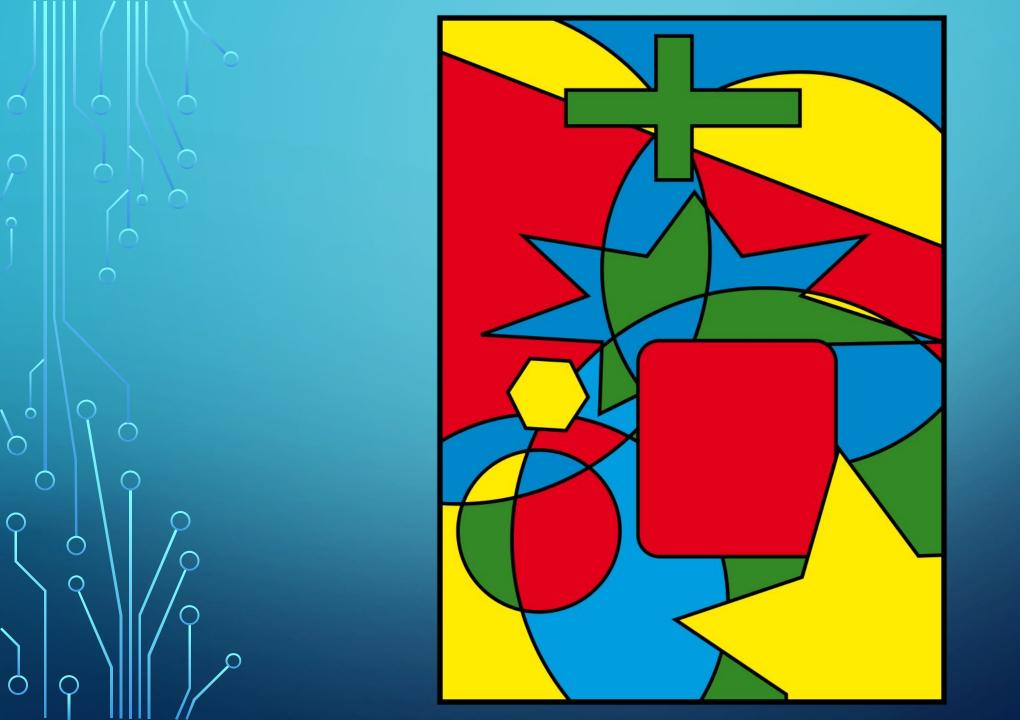


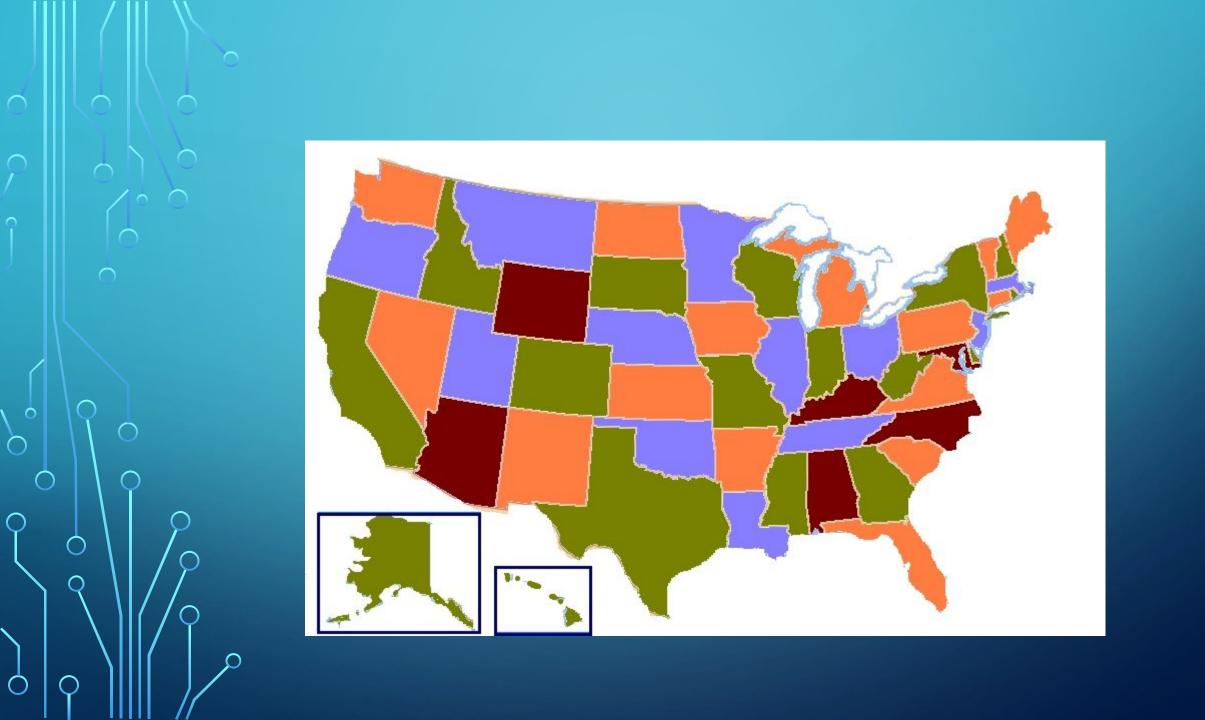
ANDREW JOHN WILES 1995, 150 PAGES

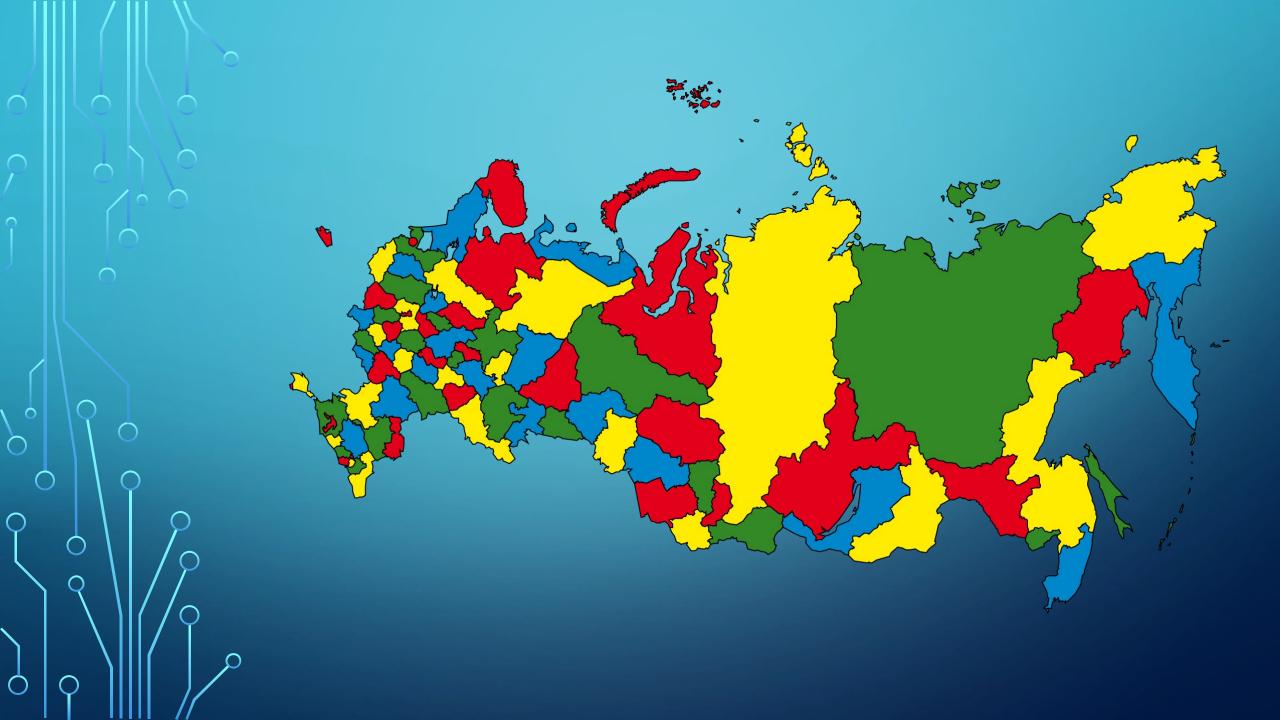


FOUR COLOR THEOREM

1878-1976

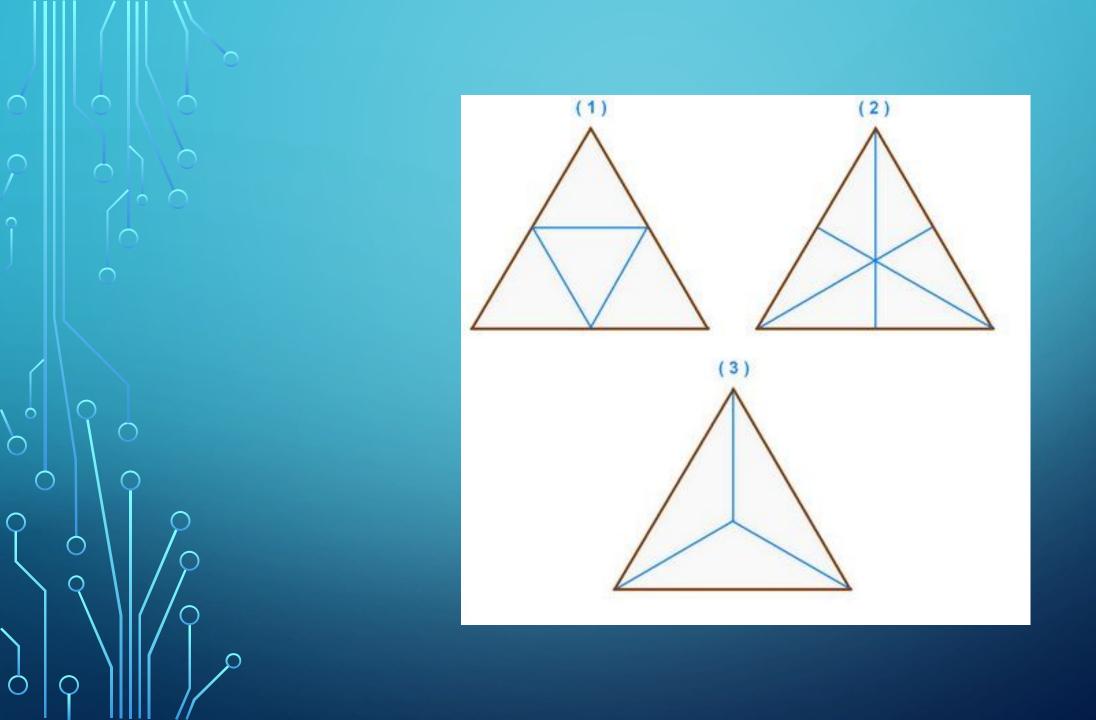


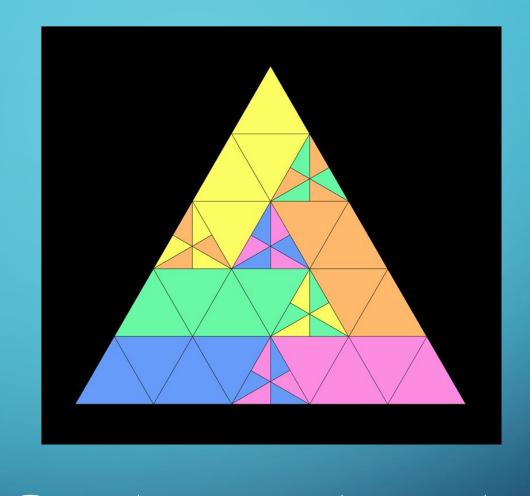






DIVIDE TRIANGLE BY 5 PARTS

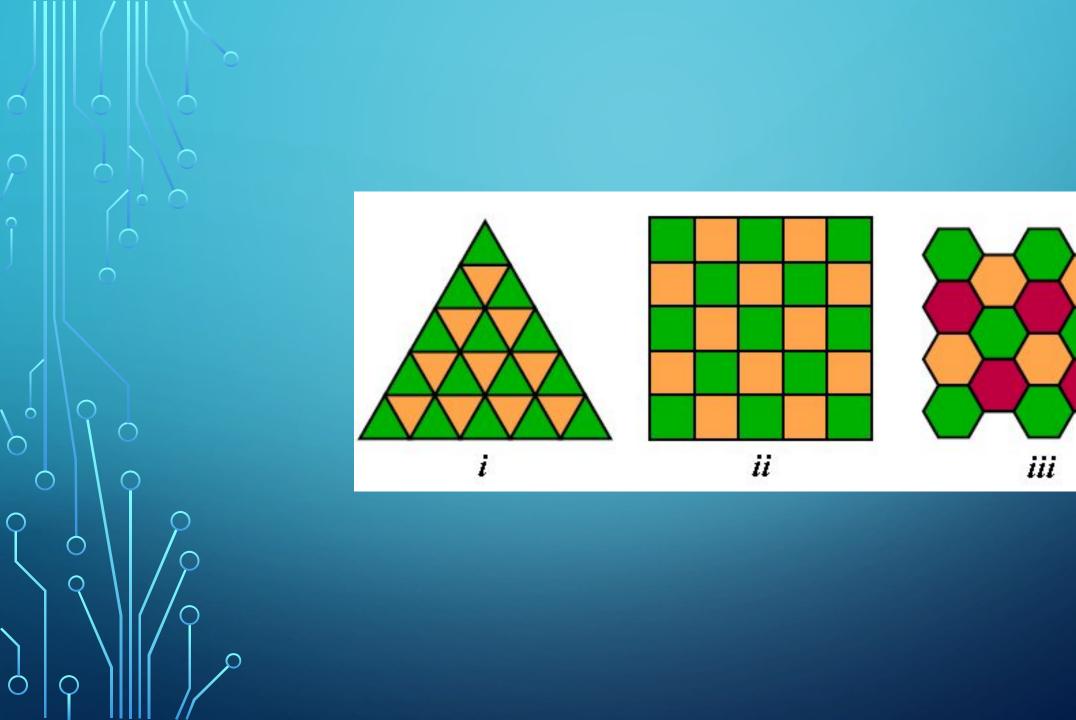




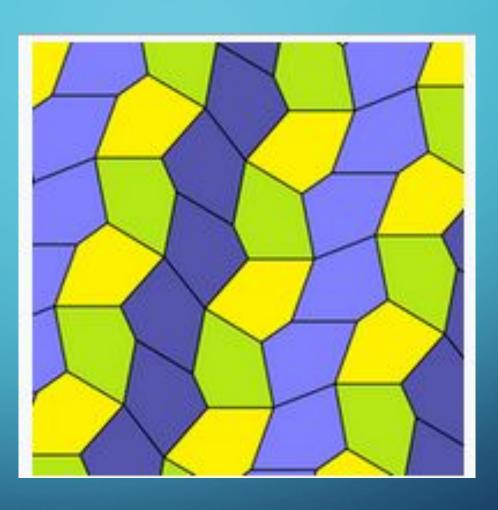
MICHAEL PATRAKEEV YEKATERINBURG, 2015



PENTAGON TILING PROBLEM









KARL REINHARDT, 1918 5



RICHARD KERSHNER, 1968 8



RICHARD JAMES, 1975

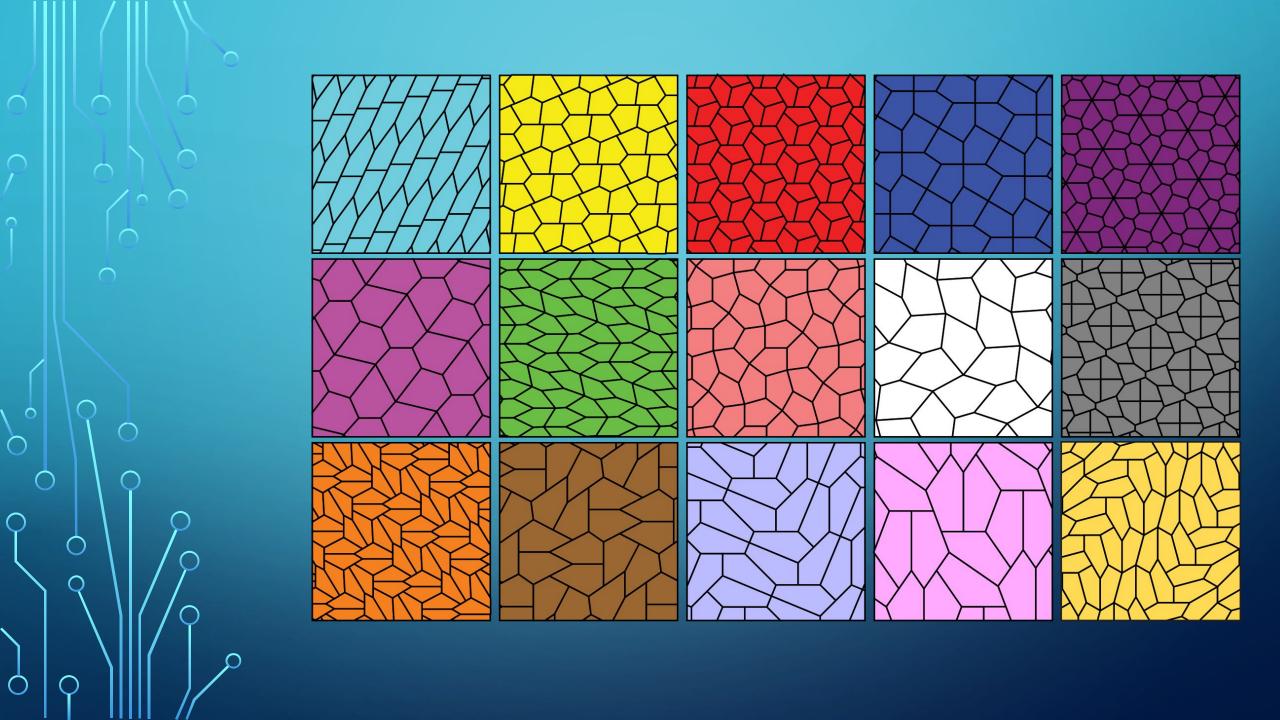




ROLF STEIN, 1985 14



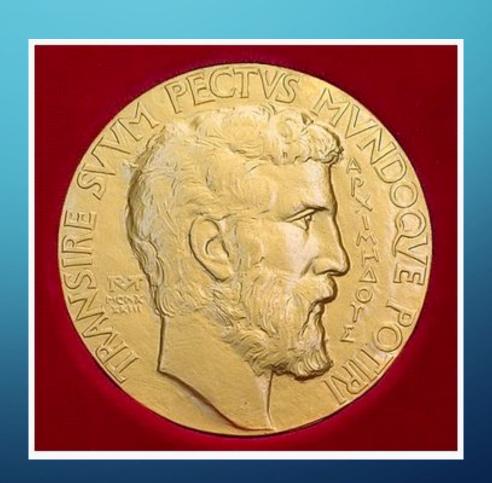
CASEY MANN, JENNIFER MCLOUD-MANN, DAVID VON DERAU, 2015 🗆 15





WHAT IS MOST VALUABLE PRIZE **MATHEMATICIAN?**

FIELDS MEDAL: 15.000 CAD





ABEL PRIZE: 750.000 EUR



WHY NOT NOBEL PRIZE?

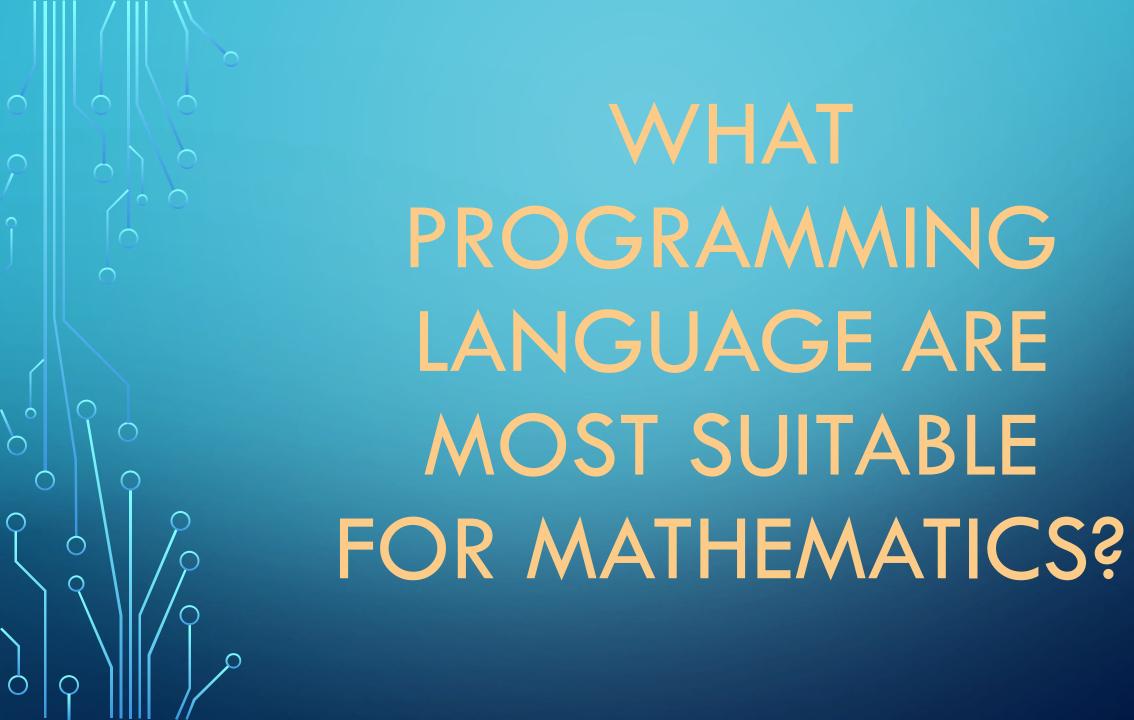




WHAT IS PROGRAMMERS PRIZE?



TURING AWARD \$250.000





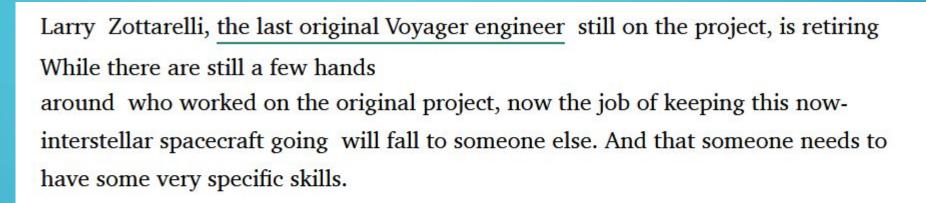
FORTRAN / COBOL

MHA\$

BIG LEGACY



Apr 2021	Apr 2020	Change	Programming Language	Ratings	Change
1	2	^	С	14.32%	-2.40%
2	1	Ÿ	Java	11.23%	-5.49%
3	3		Python	11.03%	+1.72%
4	4		C++	7.14%	+0.36%
5	5		C#	4.91%	+0.16%
6	6		Visual Basic	4.55%	-0.18%
7	7		JavaScript	2.44%	+0.06%
8	14	*	Assembly language	2.32%	+1.16%
9	8	V	PHP	1.84%	-0.54%
10	9	•	SQL	1.83%	-0.34%
11	19	*	Classic Visual Basic	1.54%	+0.71%
12	22	*	Delphi/Object Pascal	1.47%	+0.77%
13	13		Ruby	1.23%	-0.02%
14	12	v	Go	1.22%	-0.13%
1 5	11	*	Swift	1.19%	-0.32%
16	10	*	R	1.12%	-0.42%
17	48	*	Groovy	1.04%	+0.86%
18	16	¥	Perl	0.99%	+0.03%
19	18	Y	MATLAB	0.99%	+0.06%
20	34	*	Fortran	0.91%	+0.58%



Yes, it's going to require coding, but it won't be in Ruby on Rails or Python. Not C or C++. Go a little further back, to the assembly languages used in early computing. Can you breeze through Fortran? Then you might be the person for the job.

YOU HAVE A FEW TASKS AHEAD OF YOU AND ABOUT 64 KILOBYTES OF MEMORY TO WORK WITH



The stakes are especially high for the financial industry, where an estimated \$3 trillion in daily commerce flows through COBOL systems. The language underpins deposit accounts, check-clearing services, card networks, ATMs, mortgage servicing, loan ledgers and other services.

The industry's aggressive push into digital banking makes it even more important to solve the COBOL dilemma. Mobile apps and other new tools are written in modern languages that need to work seamlessly with old underlying systems.

That is where COBOL specialists come in.





Apr 2021	Apr 2020	Change	Programming Language	Ratings	Change
1	2	^	С	14.32%	-2.40%
2	1	Ÿ	Java	11.23%	-5.49%
3	3		Python	11.03%	+1.72%
4	4		C++	7.14%	+0.36%
5	5		C#	4.91%	+0.16%
6	6		Visual Basic	4.55%	-0.18%
7	7		JavaScript	2.44%	+0.06%
8	14	*	Assembly language	2.32%	+1.16%
9	8	V	PHP	1.84%	-0.54%
10	9	•	SQL	1.83%	-0.34%
11	19	*	Classic Visual Basic	1.54%	+0.71%
12	22	*	Delphi/Object Pascal	1.47%	+0.77%
13	13		Ruby	1.23%	-0.02%
14	12	v	Go	1.22%	-0.13%
1 5	11	*	Swift	1.19%	-0.32%
16	10	*	R	1.12%	-0.42%
17	48	*	Groovy	1.04%	+0.86%
18	16	¥	Perl	0.99%	+0.03%
19	18	Y	MATLAB	0.99%	+0.06%
20	34	*	Fortran	0.91%	+0.58%



R

statisticians are utilizing R for its incredible statistical computing power. R is an open-source programming language, which makes it even more appealing.

Mathematical data miners are also known for using R because you can make all sorts of programs for running through data quickly and mining data without any extra work involved. Because of this, the popularity of R has increased quite a bit in recent years.

```
# R program for matrix multiplication

# Creating matrices
m <- matrix(1:8, nrow=2)
n <- matrix(8:15, nrow=4)

# Multiplying matrices using operator
print(m %*% n)</pre>
```



PYTHON

MHA

NUMPY / SCIPY



Apr 2021	Apr 2020	Change	Programming Language	Ratings	Change
1	2	^	С	14.32%	-2.40%
2	1	Ÿ	Java	11.23%	-5.49%
3	3		Python	11.03%	+1.72%
4	4		C++	7.14%	+0.36%
5	5		C#	4.91%	+0.16%
6	6		Visual Basic	4.55%	-0.18%
7	7		JavaScript	2.44%	+0.06%
8	14	*	Assembly language	2.32%	+1.16%
9	8	V	PHP	1.84%	-0.54%
10	9	•	SQL	1.83%	-0.34%
11	19	*	Classic Visual Basic	1.54%	+0.71%
12	22	*	Delphi/Object Pascal	1.47%	+0.77%
13	13		Ruby	1.23%	-0.02%
14	12	v	Go	1.22%	-0.13%
1 5	11	*	Swift	1.19%	-0.32%
16	10	*	R	1.12%	-0.42%
17	48	*	Groovy	1.04%	+0.86%
18	16	¥	Perl	0.99%	+0.03%
19	18	Y	MATLAB	0.99%	+0.06%
20	34	*	Fortran	0.91%	+0.58%



What is NumPy?

NumPy is the fundamental package for scientific computing in Python. It is a Python library that provides a multidimensional array object, various derived objects (such as masked arrays and matrices), and an assortment of routines for fast operations on arrays, including mathematical, logical, shape manipulation, sorting, selecting, I/O, discrete Fourier transforms, basic linear algebra, basic statistical operations, random simulation and much more.

SciPy library

It provides many user-friendly and efficient numerical routines, such as routines for numerical integration, interpolation, optimization, linear algebra, and statistics.

```
# iterate through rows of X
for i in range(len(X)):
    # iterate through columns of Y
    for j in range(len(Y[0])):
        # iterate through rows of Y
        for k in range(len(Y)):
            result[i][j] += X[i][k] * Y[k][j]
```





Apr 2021	Apr 2020	Change	Programming Language	Ratings	Change
1	2	^	С	14.32%	-2.40%
2	1	Ÿ	Java	11.23%	-5.49%
3	3		Python	11.03%	+1.72%
4	4		C++	7.14%	+0.36%
5	5		C#	4.91%	+0.16%
6	6		Visual Basic	4.55%	-0.18%
7	7		JavaScript	2.44%	+0.06%
8	14	*	Assembly language	2.32%	+1.16%
9	8	V	PHP	1.84%	-0.54%
10	9	•	SQL	1.83%	-0.34%
11	19	*	Classic Visual Basic	1.54%	+0.71%
12	22	*	Delphi/Object Pascal	1.47%	+0.77%
13	13		Ruby	1.23%	-0.02%
14	12	v	Go	1.22%	-0.13%
1 5	11	*	Swift	1.19%	-0.32%
16	10	*	R	1.12%	-0.42%
17	48	*	Groovy	1.04%	+0.86%
18	16	¥	Perl	0.99%	+0.03%
19	18	Y	MATLAB	0.99%	+0.06%
20	34	*	Fortran	0.91%	+0.58%



C

<u>C</u> and <u>C++</u> provide multiple uses, so you're not only going to find these in the math field. In fact, they are more general in terms of programming, but they stand strong for mathematical programs.

Overall, C has a solid reputation when you're trying to get something done quickly. The processing speed is one of its best qualities, seeing as how many students are known to write small C programs in order to process repetitious problems.

```
void multiplyMatrices(int firstMatrix[][10], int secondMatrix[][10], int mult[][10], int
        int i, j, k;
        // Initializing elements of matrix mult to 0.
        for(i = 0; i < rowFirst; ++i)
                for(j = 0; j < columnSecond; ++j)
                        mult[i][j] = 0;
        }
        // Multiplying matrix firstMatrix and secondMatrix and storing in array mult.
        for(i = 0; i < rowFirst; ++i)</pre>
                for(j = 0; j < columnSecond; ++j)
                        for(k=0; k<columnFirst; ++k)</pre>
                                 mult[i][j] += firstMatrix[i][k] * secondMatrix[k][j];
```



ASSEMBLY

MHA

IT'S EVEN FASTER



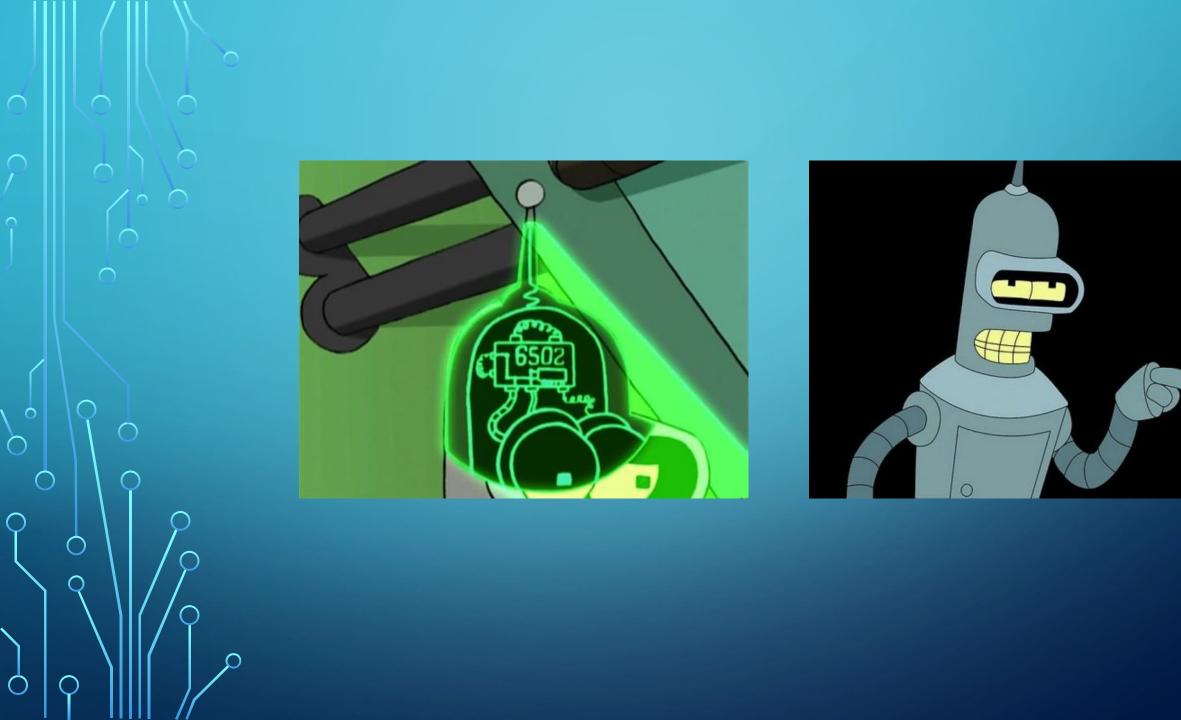
Apr 2021	Apr 2020	Change	Programming Language	Ratings	Change
1	2	^	С	14.32%	-2.40%
2	1	Ÿ	Java	11.23%	-5.49%
3	3		Python	11.03%	+1.72%
4	4		C++	7.14%	+0.36%
5	5		C#	4.91%	+0.16%
6	6		Visual Basic	4.55%	-0.18%
7	7		JavaScript	2.44%	+0.06%
8	14	*	Assembly language	2.32%	+1.16%
9	8	V	PHP	1.84%	-0.54%
10	9	•	SQL	1.83%	-0.34%
11	19	*	Classic Visual Basic	1.54%	+0.71%
12	22	*	Delphi/Object Pascal	1.47%	+0.77%
13	13		Ruby	1.23%	-0.02%
14	12	v	Go	1.22%	-0.13%
1 5	11	*	Swift	1.19%	-0.32%
16	10	*	R	1.12%	-0.42%
17	48	*	Groovy	1.04%	+0.86%
18	16	¥	Perl	0.99%	+0.03%
19	18	Y	MATLAB	0.99%	+0.06%
20	34	*	Fortran	0.91%	+0.58%



```
mulMatrix:
        enter 0,0
        ;+8: address of c,+12: address of b
        ;+16: address of a,+20: rows in 1
        ;+22: cols/rows in 1/2,+24: cols in 2
        ;+26: size of a,+28: size of b
segment .data
        i dw 0
       j dw 0
        k dw 0
        sum dw 0
        ind1 dd 0
        ind2 dd 0
segment .text
        mov eax, [ebp+16]
        mov ebx, [ebp+12]
        mov ecx,[ebp+8]
        mulLoop:
               xor dx,dx
               mov word[j],dx
                mulLoopRow:
                       xor dx,dx
                       mov word[k],dx
                       mov word[sum],dx
                       mulLoopAdd:
                               mov dx,word[i]
                               imul dx,[ebp+22]
                               add dx,word[k]
                               mov [ind1],dx
```

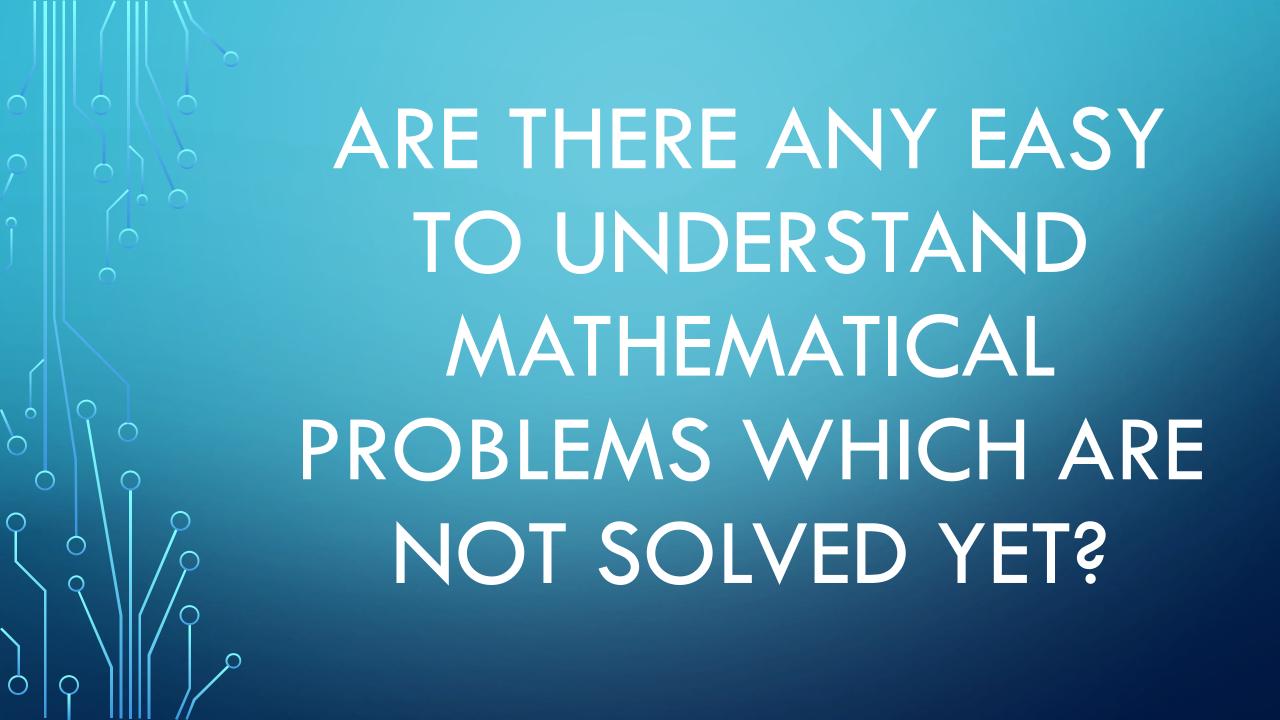
```
mov dx,word[k]
                       imul dx,[ebp+24]
                       add dx,word[j]
                       mov [ind2],dx
                       add eax,[ind1]
                       add eax,[ind1]
                       add ebx,[ind2]
                       add ebx,[ind2]
                       mov dx,[eax]
                       imul dx, [ebx]
                       add [sum],dx
                       sub eax,[ind1]
                       sub ebx,[ind2]
                       sub eax,[ind1]
                       sub ebx,[ind2]
                       inc word[k]
                       mov dx,word[k]
                       cmp dx,[ebp+22]
               jne mulLoopAdd
               mov dx,word[sum]
               mov word[ecx],dx
               add ecx,2
               inc word[j]
               mov dx,word[j]
               cmp dx,[ebp+24]
       jne mulLoopRow
       inc word[i]
        mov dx,word[i]
        cmp dx,[ebp+20]
jne mulLoop
mulLoop_end:
        leave
        ret 18
```







NON-SOLVED PROBLEMS IN MATHEMATICS



FACTORIZE THIS NUMBER

RSA-896 = 4120234369866595438555313653325759481798116998443279828454556264338764455652 4842619809887042316184187926142024718886949256093177637503342113098239748515 0944909106910269861031862704114880866970564902903653658867433731720813104105 190864254793282601391257624033946373269391

GET \$75.000

SOLVE THIS EQUATION

$$\hat{H}\psi = E\psi$$
,

PROVE P = NP (OR NOT)

GET \$1.000.000



$$x^7 - 23x^6 + 222x^5 - 1160x^4 + 3520x^3 - 6144x^2 + 5632x - 2048 = 0$$

$$x = 1$$

$$x = 2$$

$$x = 4$$

SOLVE THIS EQUATION

$$ho\left(rac{\partial v_i}{\partial t}+v_krac{\partial v_i}{\partial x_k}
ight) = -rac{\partial p}{\partial x_i}+rac{\partial}{\partial x_k}\left\{\eta\left(rac{\partial v_i}{\partial x_k}+rac{\partial v_k}{\partial x_i}-rac{2}{3}\delta_{ik}rac{\partial v_l}{\partial x_l}
ight)
ight\}+rac{\partial}{\partial x_k}\left(\zetarac{\partial v_l}{\partial x_l}\delta_{ik}
ight),$$

GET \$2.000.000





SOLVE ANY OF THESE PROBLEMS AND YOU WILL BE RICH

