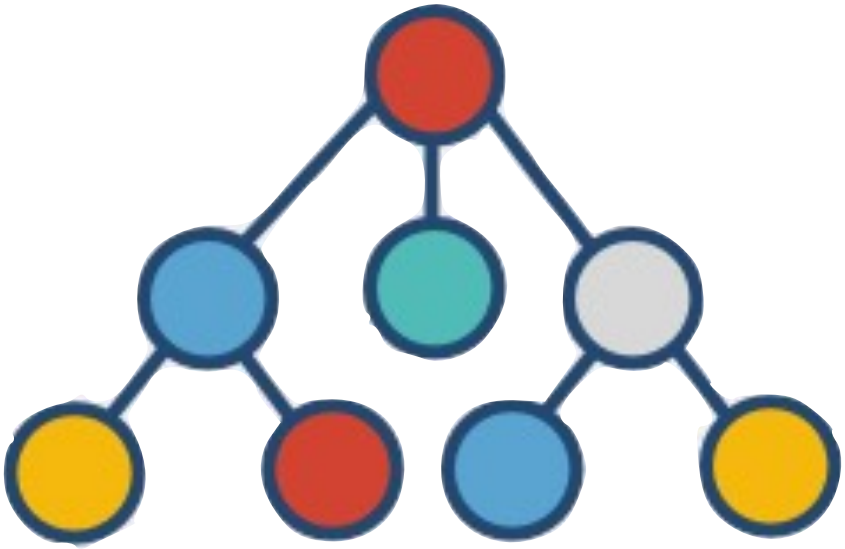
DATA STRUCTURE & ALGORITHMS

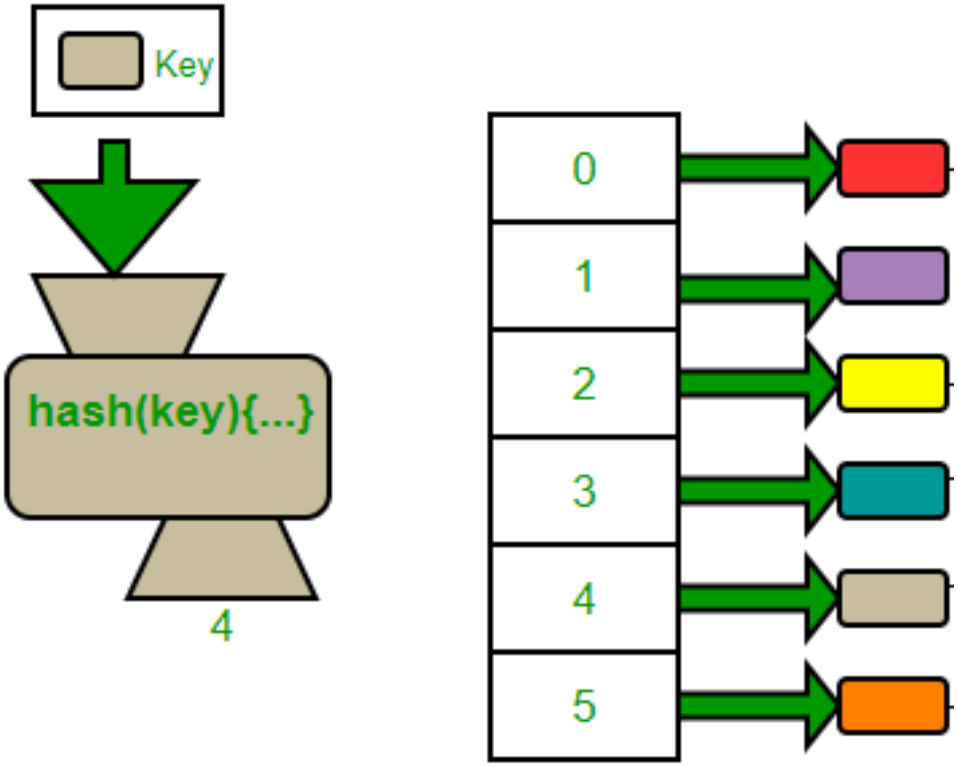


(By Prince Agarwal)

[“HELLO WORLD”]

HASHING

HASHING

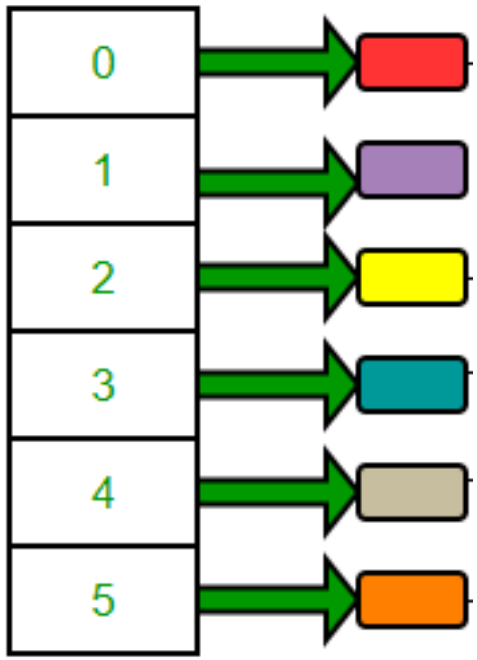


Hello world

HASHING

HASHING

Key	Value
Cuba	Havana
England	London
France	Paris
Spain	Madrid
Switzerland	Berne



simply count the number of characters

Cuba has a hash code (length) of 4

Hello world

HASHING

HASHING

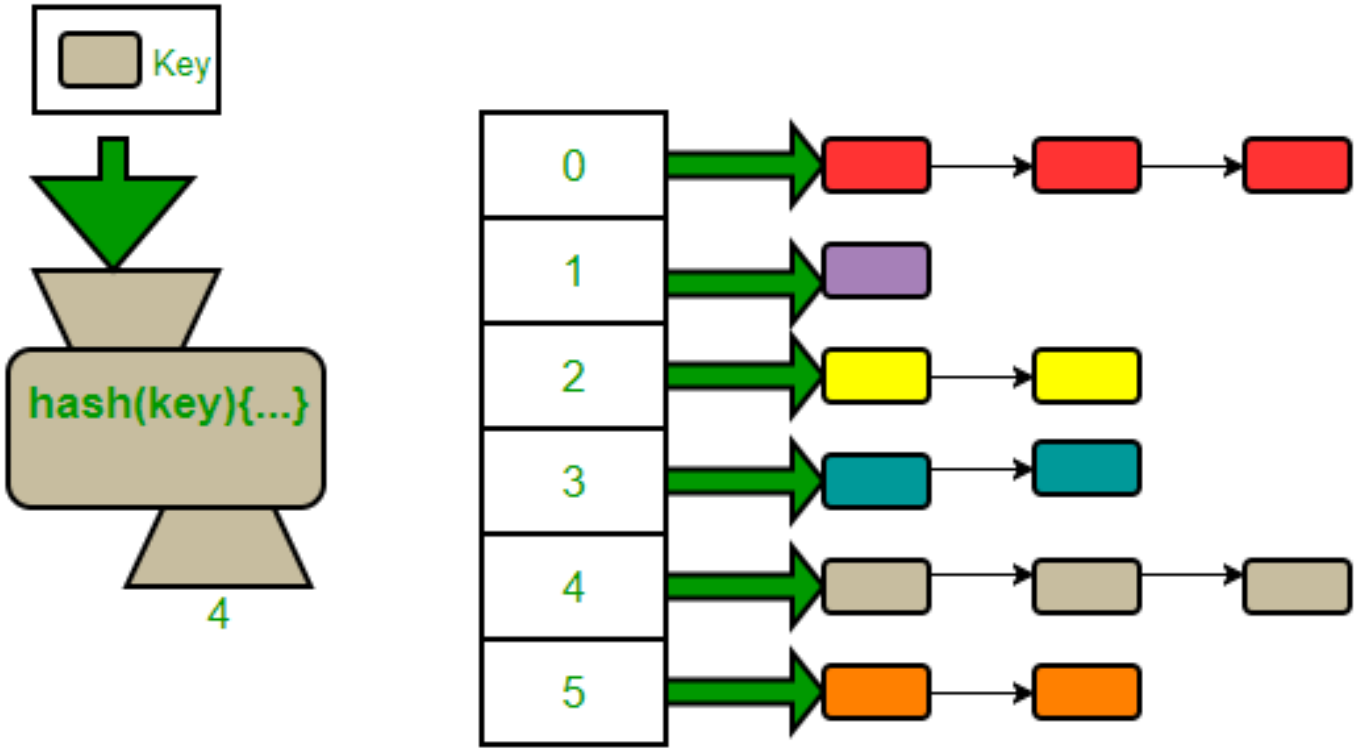
Position (hash = key length)	Keys array	Values array
1		
2		
3		
4	Cuba	Havana
5	Spain	Madrid
6	France	Paris
7	England	London
8		
9		
10		
11	Switzerland	Berne

psuedoantidisestablishmentarianistically

Hello world

HASHING

HASHING



Hello world

HASHING

HASHING

MAX == 1000

You have Given An Array contains both positive and non-positive numbers,

element are in the range from -MAX to +MAX

11	2	-3	4	-10

Hello world

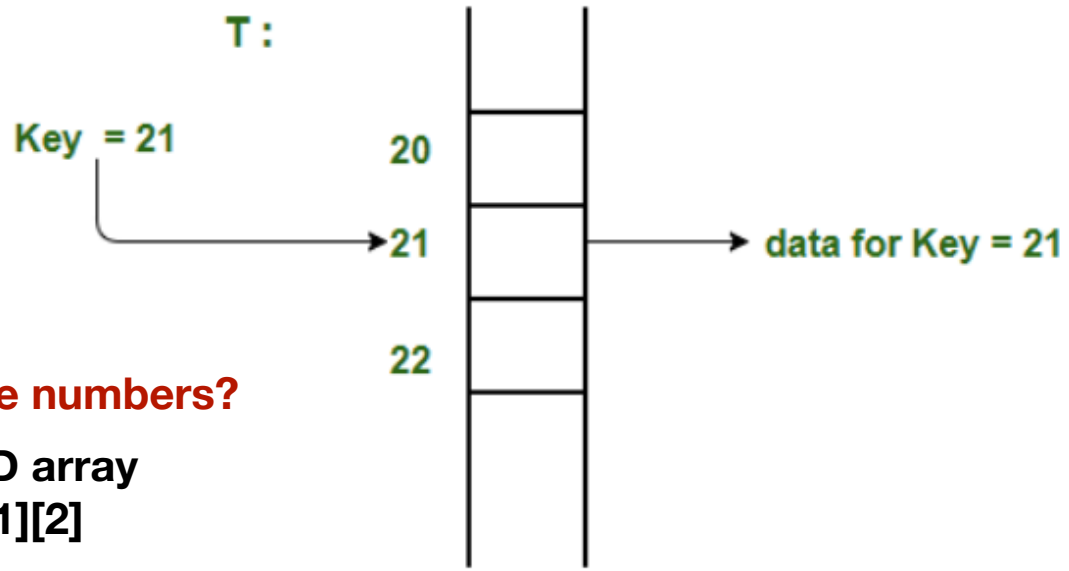
HASHING

HASHING

You have Given An Array contains both positive and non-positive numbers,

element are in the range from -MAX to +MAX

Our task is to search if some number is present in the array or not in O(1) time.



How to handle negative numbers?

The idea is to use a 2D array of size hash[MAX+1][2]

Hello world

HASHING

HASHING

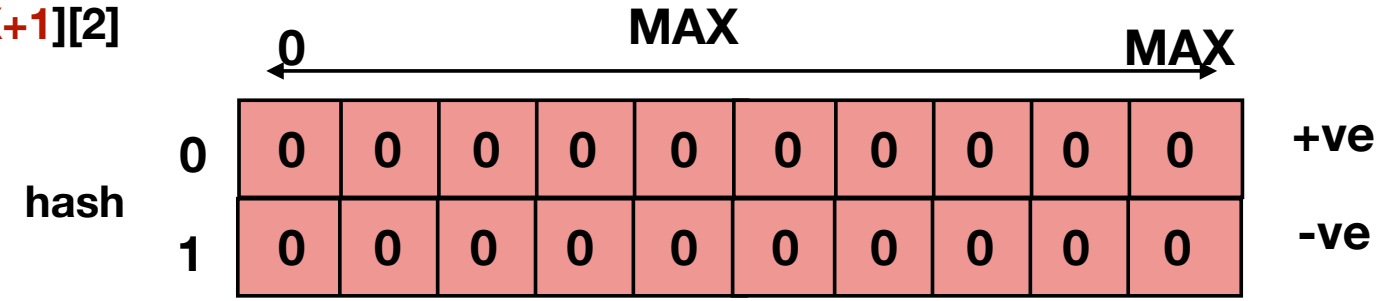
You have Given An Array contains both positive and non-positive numbers,

element are in the range from -MAX to +MAX

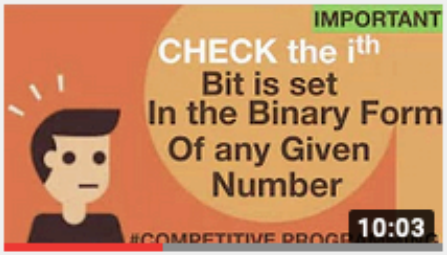
Our task is to search if some number is present in the array or not in O(1) time.

How to handle negative numbers?

The idea is to use a 2D array
of size hash[MAX+1][2]



Hello world



Check the ith bit is set, in the binary form of given numbe...

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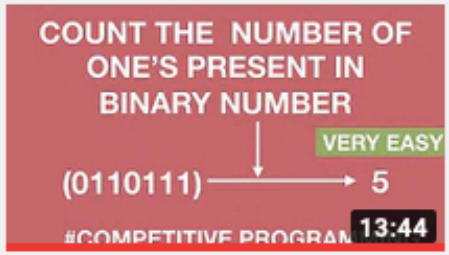

Count the number of one's in binary representation of...

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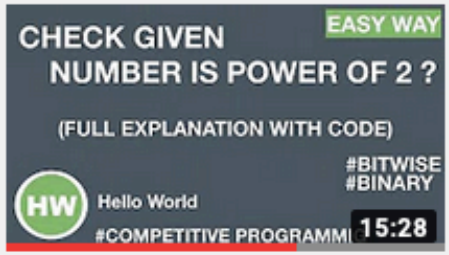

Check a given number is power of 2 | Bitwise operato...

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Left shift and right shift bitwise operator ||...

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Bitwise Operators | AND | NOT | OR | XOR || Competitiv...

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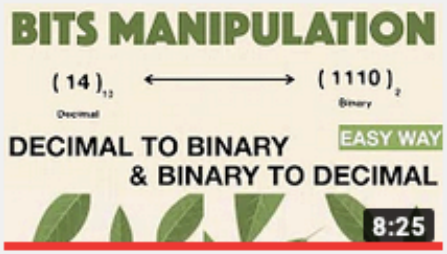

Bits Manipulation | Decimal to Binary | Binary to Decimal...

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Program of Two vs Ten Codechef - TWOVSTEN ||...

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Program of chef and his daily routine - CHEFROUT ||...

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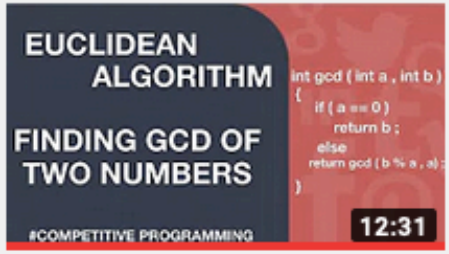

Euclidean algorithm for finding GCD of 2 numbers ||...

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Sieve of Eratosthenes -part 1 || Competitive programming...

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Program and concept of prime numbers. ||...

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memset( ) function in C/C++ and its syntax. || Competitiv...

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problem of Fancy Quotes || getline( ) in strings --FANCY...

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Concept of Handling the String related problems -...

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