

45| URL

URL

URL

URL

URL

10

Google

10

URL

64

10

URL

60GB

10

URL

60GB

100GB

100GB

20

8GB

10

URL

O(1)

O

10

1

10

10

URL

URL

CPU

CPU

URL

URL

64

URL

URL

Bloom Filter

BitMap

1

1 1

1

“ ”

true

5

5

1

true

array[5]=true

true

false

1

K

1

K

K

1

array[K]

true

true

1

true false

bit

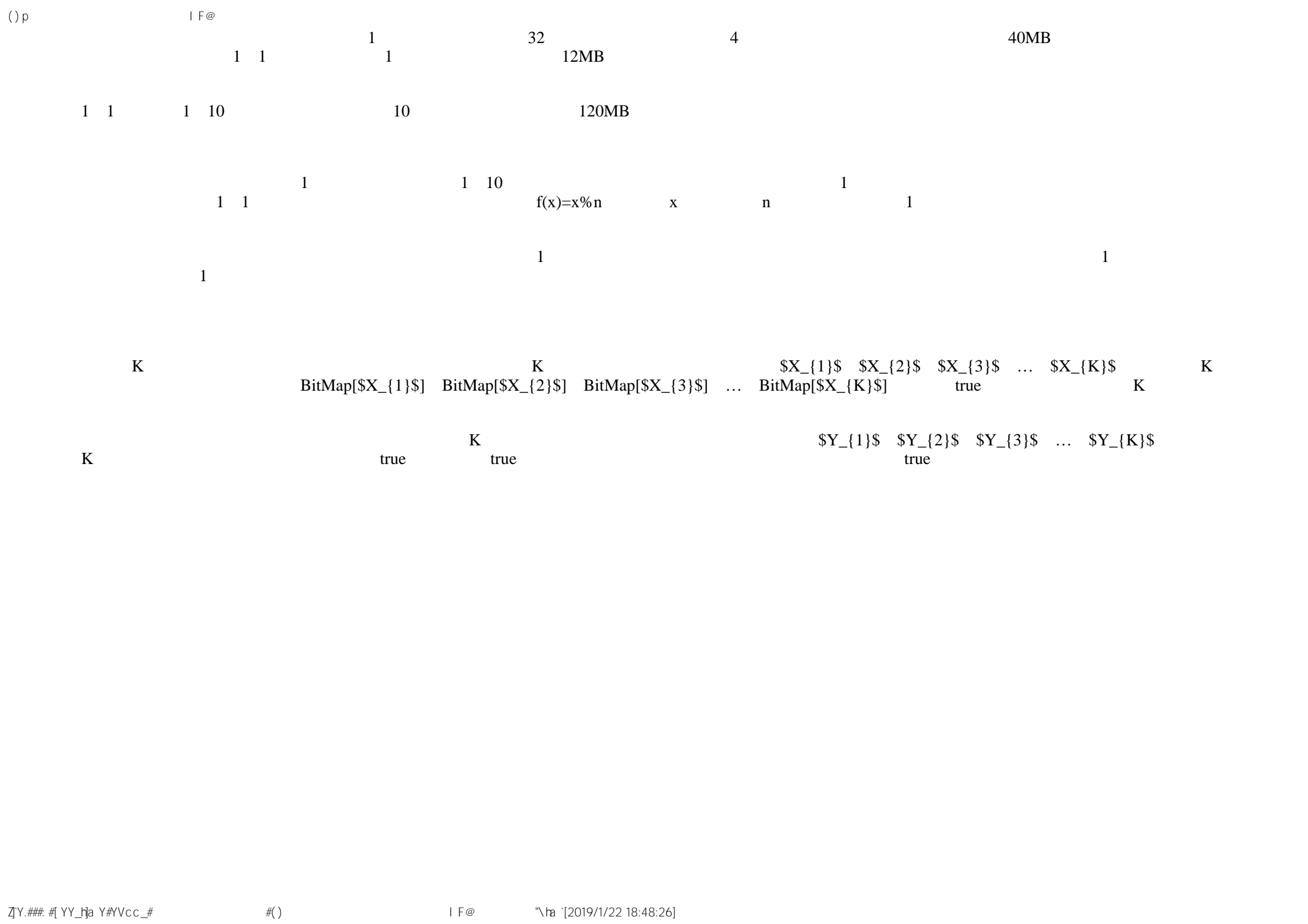
int long char

```
public class BitMap {
    private char[] bytes;
    private int nbits;

    public BitMap(int nbits) {
        this.nbits = nbits;
        this.bytes = new char[nbits/8+1];
    }

    public void set(int k) {
        if (k > nbits) return;
        int byteIndex = k / 8;
        int bitIndex = k % 8;
        bytes[byteIndex] |= (1 << bitIndex);
    }

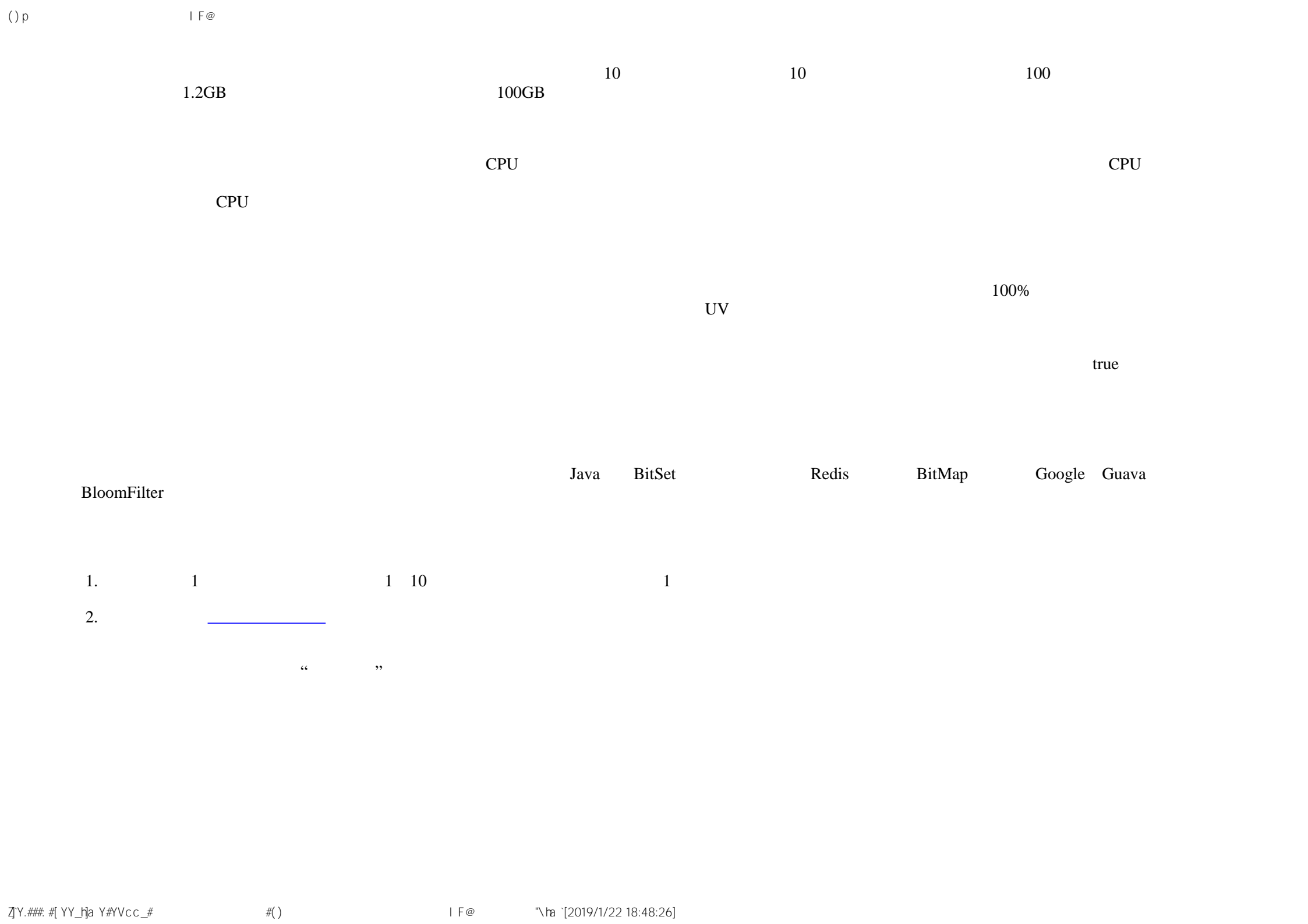
    public boolean get(int k) {
        if (k > nbits) return false;
        int byteIndex = k / 8;
        int bitIndex = k % 8;
        return (bytes[byteIndex] & (1 << bitIndex)) != 0;
    }
}
```



K

K

K



- DreamYe 2019-01-09 01:02:48
bloom filter: False is always false. True is maybe true. [14]
- 2019-01-09 07:54:11

()p I F@
1
1 400M N×log(N)
1 10 125M 1 1
N [7]
• 2019-01-09 13:43:18
1 0.4G
0.125g , , 1 10 [3]
• - 2019-01-12 09:15:14
redis set [2]
• ban 2019-01-11 18:08:26
char
https://mp.weixin.qq.com/s/xxauNrJY9HlVNvLrL5j2hg [2]
• 2019-01-11 11:44:21
(`) [2]
2019-01-14 10:01:52
• spark 2019-01-09 16:57:59
8 char 1 8 8
[2]
• 2019-01-10 09:02:51
[1]
2019-01-10 09:54:41
1
• 2019-01-09 21:38:16
[1]
ZY.###.#[YY_hja Y#VVcc_# #() I F@ "\ta `[2019/1/22 18:48:26]

2019-01-10 10:01:13

ipad paper

- spark 2019-01-09 17:36:43

1: 10 1 0 10 1 1

2: [1]

- marvinle 2019-01-09 14:33:53

3 0.9

<https://github.com/MarvinLe/tools/tree/master/BloomFilter> [1]

2019-01-10 10:11:41

- Kudo 2019-01-09 13:33:44

[1]

- Sharry 2019-01-09 09:11:44

bit byte [1]

- 2019-01-20 20:07:28

8 8 bytes char char java 8
1/32 1/64 1/8 char int long ?

- orcababyface 2019-01-17 16:34:21

BitMap :
0 Java char 16 8 16
1 set set true flase set set true
2 11 18 if k > nbits-1 ?

- 2019-01-13 14:00:57

100%

2019-01-14 10:07:53

- Alexis 2019-01-13 13:10:32
bitmap << Java bit manipulation
- Alexis 2019-01-13 13:06:22
bitmap nbits 31 bitmap set(31) : byte[3] = 00001110. get(30): return 00001110 & 00001100 = 00001100 !=0, return true,
- Alexis 2019-01-13 12:27:51
100gb tb pc 16gb
- likun 2019-01-12 15:06:29
char 16
2019-01-17 15:31:19
c/c++