

Algorithm:

1. Initialize a scanner to take input of a long variable N.
2. Initialize an array "count" of size 10 to keep track of the frequency of each digit.
3. Use while loop to iterate through each digit of N by repeatedly taking the modulus with 10 and divided by 10.
4. For each digit, increase the corresponding index in the count array.
5. Initialize variables "maxCount" and "maxDigit" to keep track of the maximum frequency and digit.
6. Use a for loop to iterate through the count array and update "maxCount" and "maxDigit" if a higher frequency is found.
7. If count of current digit is same as maxCount, update maxDigit with the minimum of maxDigit and current digit.
8. Print maxDigit.
9. Close the scanner.

Pseudocode:

scan = create new scanner

N = scan.nextLong()

count = new int[10]

while N > 0:

    digit = N % 10

    count[digit] ++

    N = N / 10

maxCount = 0

maxDigit = 9

for i = 0 to 9 :

    if count[i] > maxCount :

        maxCount = count[i]

        maxDigit = i

    else if count[i] == maxCount :

        maxDigit = min(maxDigit, i)

print(maxDigit)

scan.close()