Excel Sheet Column Number

Related to question Excel Sheet Column Title

Given a column title as appear in an Excel sheet, return its corresponding column number.

For example:

```
A -> 1
B -> 2
C -> 3
...
Z -> 26
AA -> 27
AB -> 28
```

Credits:
Special thanks to @ts for adding this problem and creating all test cases.

Solution 1

Java:

```java
int result = 0;
for (int i = 0; i < s.length(); result = result * 26 + (s.charAt(i) - 'A' + 1), i
++);
return result;
```

C++:

```cpp
int result = 0;
for (int i = 0; i < s.size(); result = result * 26 + (s.at(i) - 'A' + 1), i++);
return result;
```

Python:

```python
return reduce(lambda x, y : x * 26 + y, [ord(c) - 64 for c in list(s)])
```

Python version is beautiful because reduce function and list comprehensive.

I don't know whether exist similar approach to achieve one line solution in Java or C++. One possible way is defining another method like this:

```java
public int titleToNumber(int num, String s)
```

to store previous result and make recursive call. But this add much more lines.

written by xcv58 original link here

Solution 2

I was asked of this question during an interview with microsoft. The interviewer asked whether I want a coding question or a brain teaser, I asked for the latter and here comes the question. I did not do it very well at that time, though.

written by dengruixistudent original link here

Solution 3

Here is my Java solution. Similar to the number to title.

```java
public int titleToNumber(String s) {
    int result = 0;
    for(int i = 0 ; i < s.length(); i++) {
      result = result * 26 + (s.charAt(i) - 'A' + 1);
    }
    return result;
  }
```

written by darko1002001 original link here