

Internal Function - Unit Testing

```
name get_nft_name_from_number(uint64_t nft_number, name suffix);  
-- version 10b (2023-09-30)
```

```
name nftscribe::get_nft_name_from_number(uint64_t nft_number, name suffix) {  
    // Ensure the suffix is valid  
    check(suffix.length() >= 1 && suffix.length() <= 6, "Invalid suffix length. Must be between 1 and 6 characters.");  
  
    // Ensure nft_number is not past maximum allowed  
    check(nft_number <= 28629150, "get_nft_name_from_number received too high of a value for nft_number, max is 28629150. ");  
  
    // Helper function to convert a value into its corresponding character  
    auto value_to_char = [](uint64_t value) -> char {  
        if (value >= 1 && value <= 5) return '0' + value;  
        if (value >= 6 && value <= 30) return 'a' + value - 6;  
        if (value == 0) return 'z'; // Special case for 0  
        return ' '; // Default, shouldn't happen with checks in place  
    };  
  
    string result_name = ""; // The string representation of the resulting name without the suffix  
  
    do {  
        uint64_t remainder = nft_number % 31; // Get remainder of nft_number divided by 31  
        result_name.insert(result_name.begin(), value_to_char(remainder)); // Convert remainder to char and prepend to result_name  
        nft_number /= 31; // Divide nft_number by 31 to get the next digit  
    } while (nft_number > 0);  
  
    // Now we concatenate the name with the provided suffix  
    string full_name_string = result_name + "." + suffix.to_string();  
    name full_name(full_name_string);  
  
    return full_name;  
}
```

PASSED Name Resolution Test (961, name("nft"))

```
name name_test = get_nft_name_from_number(961, name("nft"));  
check(false, "name_test=" + name_test.to_string());
```

```
assertion failure with message:  
name_test=1zz.nft
```

PASSED Max Name Test (28629150, name("nft"))

```
name name_test = get_nft_name_from_number(28629150, name("nft"));
check(false, "name_test=" + name_test.to_string());
```

```
assertion failure with message:
name_test=yyyyy.nft
```

```
{
  "code": 500
  "message": "Internal Service Error"
  "error":
```

PASSED Min Name Test (0, name("nft"))

```
name name_test = get_nft_name_from_number(0, name("nft"));
check(false, "name_test=" + name_test.to_string());
```

```
assertion failure with message:
name_test=z.nft
```

```
{
  "code": 500
```

FAILED & FIXED 1 Past Max Test (28629151, name("nft"))

```
name name_test = get_nft_name_from_number(28629151, name("nft"));
check(false, "name_test=" + name_test.to_string());
```

▼ Result

Error

```
assertion failure with message:
name_test=1zzzzz.nft
```

```
{
  "code": 500
  "message": "Internal Service Error"
  "error":
```

Redrafted function to 10b with additional max number allowed

```
// Ensure nft_number is not past maximum allowed
check(nft_number <= 28629150, "get_nft_name_from_number received too high of a value for nft_number, max is 28629150. ");
```

PASSED 1 Past Max Test (28629151, name("nft"))

```
name name_test = get_nft_name_from_number(28629151, name("nft"));  
check(false, "name_test=" + name_test.to_string());
```

```
assertion failure with message:  
get_nft_name_from_number received too high  
of a value for nft_number, max is  
28629150.
```

```
{  
  "code": 500  
  "message": "Internal Service Error"  
}
```