

rustmoe

CodeWars – dead ants

An orderly trail of ants is marching across the park picnic area.

It looks something like this:

```
..ant..ant.ant...ant.ant..ant.ant....ant..ant.ant.ant...ant..
```

But suddenly there is a rumour that a dropped chicken sandwich has been spotted on the ground ahead. The ants surge forward! Oh No, it's an ant stampede!!

Some of the slower ants are trampled, and their poor little ant bodies are broken up into scattered bits.

The resulting carnage looks like this:

```
...ant...ant..nat.ant.t..ant...ant..ant..ant.anant...t
```

Can you find how many ants have died?

Notes

When in doubt, assume that the scattered bits are from the same ant. e.g. 2 heads and 1 body = 2 dead ants, not 3

```
get the number of all ants (max{a, n, t})
compare 'ant' with origin string:
    if 'ant' matches, move on 3 indexes, then count of ant(alive) plus 1;
    else move on 1 index;
    keep comparing until the end.
max - count = dead.
```

Solution

```
int deadAntCount(const char* ants)
{
    int count = 0; // ants alive
    int a_num = 0;
    int n_num = 0;
    int t_num = 0;

    const char* p = ants;
    while (*p) {
        if (*p == 'a') {
            a_num++;
        }

        if (*p == 'n') {
            n_num++;
        }

        if (*p == 't') {
            t_num++;
        }
        p++;
    }

    // get the number of ants(max{a, n, t})
    int num = a_num;
    num =
        (a_num > n_num ? a_num : n_num) > t_num ? (a_num > n_num ? a_num :
n_num) : t_num;
```

```
    if (!strcmp(ants, ant, 3)) {  
        count++;  
        ants += 3;  
    } else {  
        ants += 1;  
    }  
}  
  
return num - count;  
}
```

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