

```
public static int compute(String text) {  
    int result = 0;  
    for (int i = text.length() - 1; i >= 0; i--) {  
        char c = text.charAt(i);  
        if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z')) {  
            result++;  
        } else {  
            break;  
        }  
    }  
    return result;  
}
```

A control flow graph is overlaid on the code, with nodes represented by colored circles and edges by colored lines. The graph shows the execution flow: starting from the beginning of the function, it goes to the loop initialization, then to the loop body. The loop body has a conditional branch: if the character is alphanumeric, it increments the result and loops back; otherwise, it breaks out of the loop. The graph uses a color scheme where purple nodes represent the loop body and the increment operation, orange nodes represent the conditional branch and the break statement, and yellow nodes represent the entry and exit points of the function.