i	1	2	3	4	5	6	7	8	9	10	11
S	a	a	b	c	a	a	b	x	a	a	z
Z_i	-	1	0	0	3	1	0	0	2	1	0

i	1	2	3	4	5	6	7	8	9	10
S	a	b	a	b	c	a	b	a	b	a
Z_i	-	0	2	0	0	4	0	3	0	1

```
FOR i ← 2 TO |S| DO
    j ← 0
    WHILE S(j+1) = S(i+j) AND i+j<|S| DO
        j ← j+1
    END WHILE
    Zi ← j
END FOR
```

$27n^2 + 3n + 29 = O(n^2)$ ✓

$15n + 3 = O(n)$ ✓

$15n + 3 = O(n^3)$ ✓

$15n^2 + 100 = O(n)$ NEIN!

$23 \log n = O(\log n)$ ✓

$\log n = O(n)$ ✓

$(n+1)(n+2)(n+3) = O(n^2)$ NEIN!

$n^3 + 6n^2 + 11n + 6 = O(n^3)$ ✓

$n^2 + 10000n = O(n)$ NEIN!

$n^2 + 10000n = O(n^2)$ ✓

$n^2 + 10000n = O(n^7)$ ✓