

### Задача 13

$P1 = TCCTATTCTT$ ,  $\Omega = \{A, T, G, C\}$ .

① Найти все суффиксы исходных символов:

c	A	C	G	T
$t(c)$	5	2	10	1

Найти все исходных суффиксов:

k	1	2	3	4	5	6	7	8	9
$d_k$	1	3	9	9	9	9	9	9	9

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

$TCCTATTCTT$

② Типовые функции:

$[0, 0, 0, 1, 0, 1, 1, 2, 1, 1]$ .

$T: 0$

$TC: 0$

$TCC: 0$

$\underline{TCCT}: 1$

$TCCTA: 0$

$\underline{TCCTAT}: 1$

$\underline{TCC TATT}: 1$

$\underline{TCC TATT C}: 2$

$\underline{TCC TATT CT}: 1$

$\underline{TCC TATT CT T}: 1$

③  $T_2$  BABABAB,  $P_2$  ABA

$M(0) = (0, 0, 0)$

$U(T(1)) = U(B) = (0, 1, 0)$

$\text{Shift-And}(0) = (1, 0, 0)$

$M(1) = (1, 0, 0) \text{ AND } (0, 1, 0) = (0, 0, 0)$

$U(T(2)) = U(A) = (1, 0, 1)$

$\text{Shift-And}(1) = (1, 0, 0)$

$M(2) = (1, 0, 0) \text{ AND } (1, 0, 1) = (1, 0, 0)$



$$U(T(3)) = U(B) = (0, 1, 0)$$

$$\text{Shift-And}(2) = (1, 1, 0)$$

$$M(3) = (1, 1, 0) \text{ AND } (0, 1, 0) = (0, 1, 0)$$

$$U(T(4)) = U(A) = (1, 0, 1)$$

$$\text{Shift-And}(3) = (1, 0, 1)$$

$$M(4) = (1, 0, 1) \text{ AND } (1, 0, 1) = (1, 0, 1)$$

$$U(T(5)) = U(B) = (0, 1, 0)$$

$$\text{Shift-And}(4) = (1, 1, 0)$$

$$M(5) = (1, 1, 0) \text{ AND } (0, 1, 0) = (0, 1, 0)$$

$$U(T(6)) = U(A) = (1, 0, 1)$$

$$\text{Shift-And}(5) = (1, 0, 1)$$

$$M(6) = (1, 0, 1) \text{ AND } (1, 0, 1) = (1, 0, 1)$$

$$U(T(7)) = U(B) = (0, 1, 0)$$

$$\text{Shift-And}(6) = (1, 1, 0)$$

$$M(7) = (1, 1, 0) \text{ AND } (0, 1, 0) = (0, 1, 0)$$

			B	A	B	A	B	A	B
		0	1	2	3	4	5	6	7
A	1	0	0	1	0	1	0	1	0
B	2	0	0	0	1	0	1	0	1
A	3	0	0	0	0	1	0	1	0

