4.3 解: 约定言符串下标从 1 升始. 后面都因亦作的决议定.
Str Length (6) = (4 , Str Length (t) = +

SubString (5,8,7) = 'STUDENT'

SubString (+,2,1) = '0'

Index (5,'A') = 3 , Index (5,t) = 0

Replace (5,'STUDENT', 2) = 'I AM A WORKER'.

Concat (SubString (5,6,2) , Coneat (t. SubString (5,7,8)))

= 'A GOOD STUDENT'

4.4. A. : s = Cone out (a, Concout (Substring (f, 2, 7), Concout (b, SubString (a, 3, 2))))

: THIS SAMPLE IS

t= 'A GOOD'

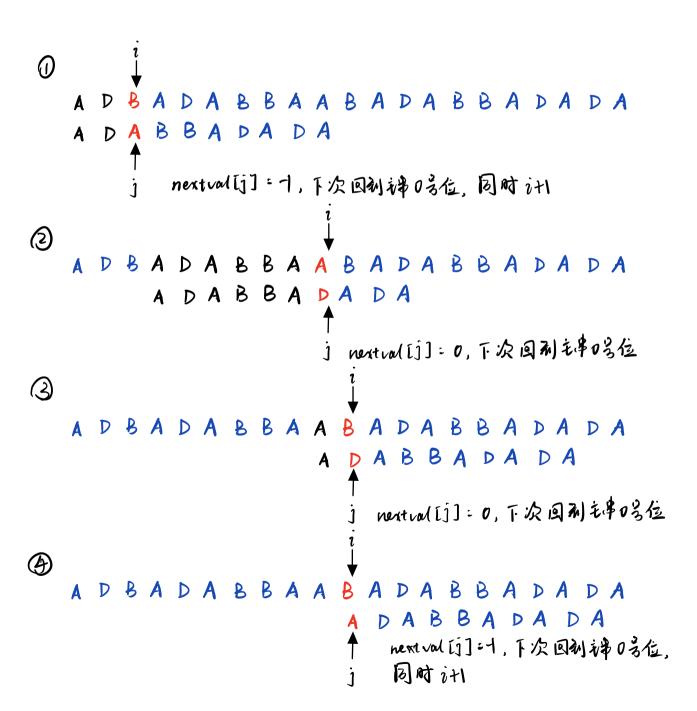
N : 'THIS SAMPLE IS A GOOD ONE'

Stylength (s) = 14, Index (N.g) = 3, Index (u,g) = 0

4.8 解:模式串的nextval函数值如下考:

下标	0	ı	2	3	4	5	6	7	8	9
44	A	D	Á	B	B	A	D	A	D	A
next	-(0	0	1	0	0	١	2	3	2
nextrol	7	0	-1	١	Ô	-1	0	-1	3	-

KMP 算法区配过钱:



5.1
$$44$$
: (1) $6 \times 6 \times 8 = 288 \stackrel{?}{2} \stackrel{?}{7}$

12) $10C(5,7) = 10C(0,0) + \stackrel{?}{\stackrel{?}{\sim}} C_i \stackrel{?}{j}_i$

= $1000 + (5 \times 8 + 7) \times 6$

= 1282

5-8 解:将原矩阵为块为加下形式:

if
$$a_{ij} \in A_{q-1,q} = \begin{pmatrix} a_{q-1,q-1} & a_{q-1,q} \\ a_{q,q-1} & a_{qq} \end{pmatrix}$$

则Ag-1.含之刻 其有 是·4:29个非零元

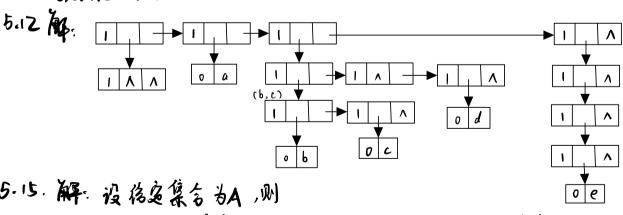
因此在数组 BI4m]中, aq-1.g-1 下标为2g, aq-1.g.下标为2g+1, Qq,g-1下标为28t2, Qqg下标为28t3 明胸得, k: { itjt, i为奇极, itjt3, it为偶数,

或詩得, k= i+j +2+(i+1)%,2

5.11 / 1> Ger Head [Ger Tail [Ger Tail [L.]]]

- as Ger Head [Ger Head [Ger Towl [L2]]]
- 13) Get Head [Get Head [Get Touil [Get Head [L3]]]]]
- (4) Get Head [Get Head [Get Head [Get Towl [Get Toul [L4]]]]]
- (5) Get Head [Get Head [Get Tail [Get Tail [L5]]]]
- (b) GerHead [Ger avil [GerHead [47]]

(1) Get Head [Get Head [Get Tail [Get Head [Get Tail [L7]]]]]



5·15·解·设格运集含为A,则

$$P(A) = \begin{cases} \{ \emptyset \} \end{cases}$$
, $|A| = 0$
 $P(A) = \begin{cases} P(A \setminus \{a\}) \cup f(P(A \setminus \{a\}), a), |A| \neq 0 \end{cases}$
其中映射 $f: (S, e) \mapsto S' := \begin{cases} x \mid x = x_0 \cup \{a\}, \forall x_0 \in S \end{cases}$