## 作业 1

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4.3 解:
  StrLength(s) = 14;
  StrLength(t) = 4;
  SubString(s, 8, 7) = 'STUDENT';
  SubString(t, 2, 1) = '0';
   Index(s, 'A') = 3;
   Index(s,t) = 0;
  Replace(s,' STUDENT', q) = 'I AM A WORKER';
  Concat (SubString (s, 6, 2), Concat (t, SubString (s, 7, 8)))
        = 'A GOOD STUDENT';
4.4 解:
  s = 'A SAMPLE IS';
  t = 'A GOOD';
  u = 'ONE';
  v = 'A SAMPLE IS A GOOD ONE';
   g = 'IS';
  StrLength(s) = 11;
   Index (v, g) = 10;
```

Index (u, g) = 0;

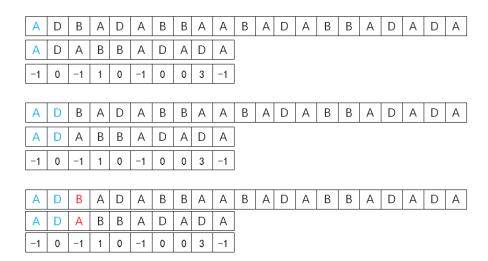
# 4.8解:

Nextval: -1, 0, -1, 1, 0, -1, 0, 0, 3, -1;

1.

	А	D	А	В	В	Α	D	Α	D	Α
Nextval[]	-1	0	-1	1	0	-1	0	0	3	-1

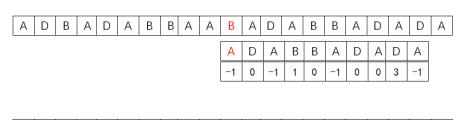
2.



3.

Α	D	В	Α	D	Α	В	В	Α	Α	В	Α	D	Α	В	В	Α	D	Α	D	А
			Α	D	Α	В	В	Α	D	Α	D	Α								
			-1	0	-1	1	0	-1	0	0	3	-1								
													_							
Α	D	В	Α	D	Α	В	В	Α	Α	В	Α	D	Α	В	В	Α	D	Α	D	Α
									Α	D	Α	В	В	Α	D	Α	D	Α		
									-1	0	-1	1	0	-1	0	0	3	-1		

4.



## 5.1解:

(1) 
$$6 * 8 * 6 = 288$$
 Byte;

(2) 
$$LOC(5,7) = LOC(0,0) + (8 * 5 + 7) * 6$$
  
=  $1000 + 282 = 1282$ ;

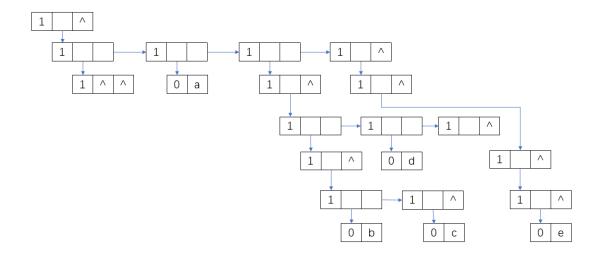
(3) 
$$LOC(1, 4) = LOC(0, 0) + (8 * 1 + 4) * 6$$
  
=  $1000 + 72 = 1072$ ;

(4) 
$$LOC(4,7) = LOC(0,0) + (6 * 7 + 4) * 6$$

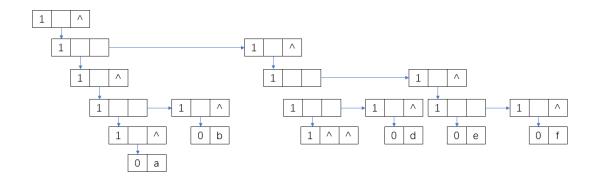
```
= 1000 + 276 = 1276;
5.8 解:
      k = \left[\frac{i+j-1}{4}\right] * 4 + \left[(i+1)\%2\right] * 2 + (j+1)\%2;
5.11 解:
   (1) L1:
GetHead[GetTail[GetTail[(apple, pear, banana, orange)]]];
   (2) L2:
GetHead[GetTail[GetHead[((apple, pear), (banana, orange))]]];
   (3) L3:
   GetHead [GetTail [GetTail [GetHead [(((apple), (pear
   ), (banana), (orange)))]]]]];
   (4) L4:
GetHead [GetHead [GetTail [GetTail [apple, (pear), ((ban
ana)), (((orange)))]]]]];
   (5) L5:
GetHead[GetTail[GetHead[((((apple))), ((pear)), (ban
ana), orange)]]]];
   (6) L6:
GetTail[GetHead[((((apple), pear), banana), orange)]];
   (7) L7:
GetHead [GetTail [GetTail [(apple, (pear, (banana), oran
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ge))]]]];

### 5.12 解: (1)



(2)



### 5.15 解:

幂集的递归定义:

基本项:  $P(A) = \emptyset$ , 当 A 为空集时,

归纳项: P(A) = P(A - {a}) U P({a}), a∈A, 当 A 不为空集时