12

13

14

23

24

34

输入受限：不能42开头

输出受限：1，2不开头时12临近

1. 4132

2. 4213

3. 4231

void next(string P, int\* arr) {

int i = 0, j = -1;

arr[0] = -1;

while (i < P.length() - 1) {

if (j == -1 || P[i] == P[j]) {

i++;

j++;

arr[i] = j;

}

else {

j = arr[j];

}

}

}

void nextval(string P, int\* arr) {

int i = 0, j = -1;

arr[0] = -1;

while (i < P.length() - 1) {

if (j == -1 || P[i] == P[j]) {

i++;

j++;

if (P[i] != P[j]) {

arr[i] = j;

}

else {

arr[i] = arr[j];

}

}

else {

j = arr[j];

}

}

}

上述写法适用于c++（数组下标从0开始），下面答案是数组下标从1开始的语言获得的答案

1. s next {0, 1, 2, 3}

nextval {0, 0, 0, 3}

2. t next {0, 1, 1, 1, 2, 3, 2}

nextval {0, 1, 1, 0, 1, 3, 2}

3. u next {0, 1, 1, 1, 2, 2, 3, 1, 2, 3, 4, 5, 3, 2, 2, 1, 1, 2, 1, 1}

nextval {0, 1, 1, 0, 2, 1, 3, 0, 1, 1, 0, 5, 3, 2, 2, 1, 0, 2, 1, 0}