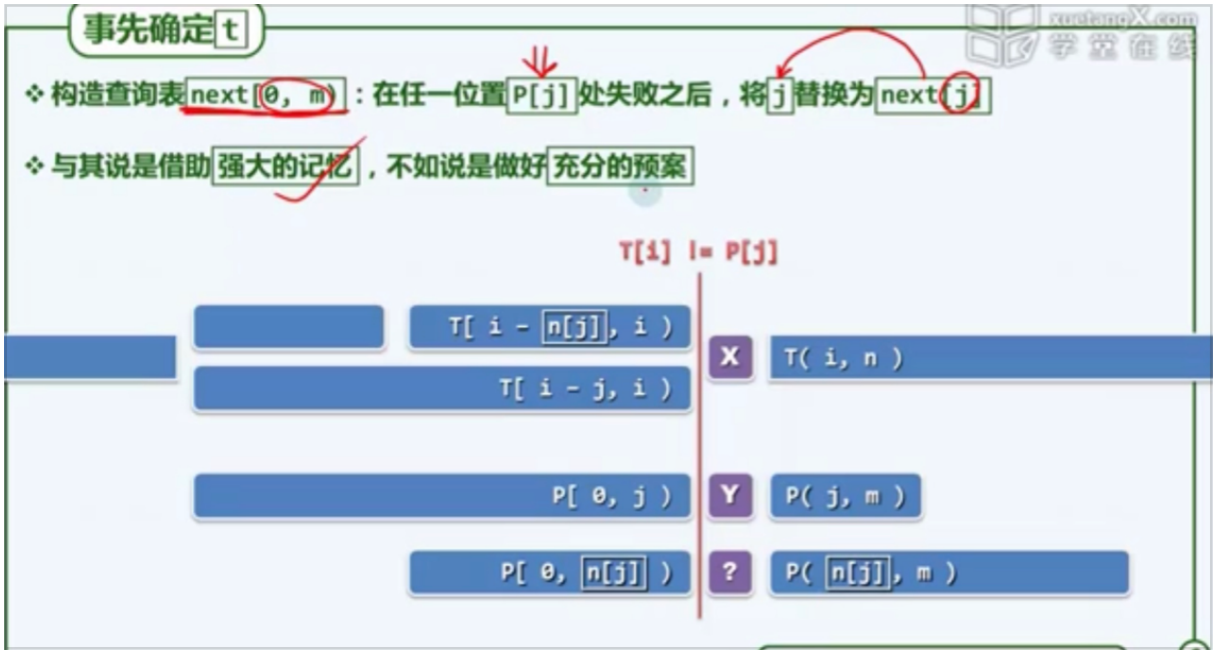
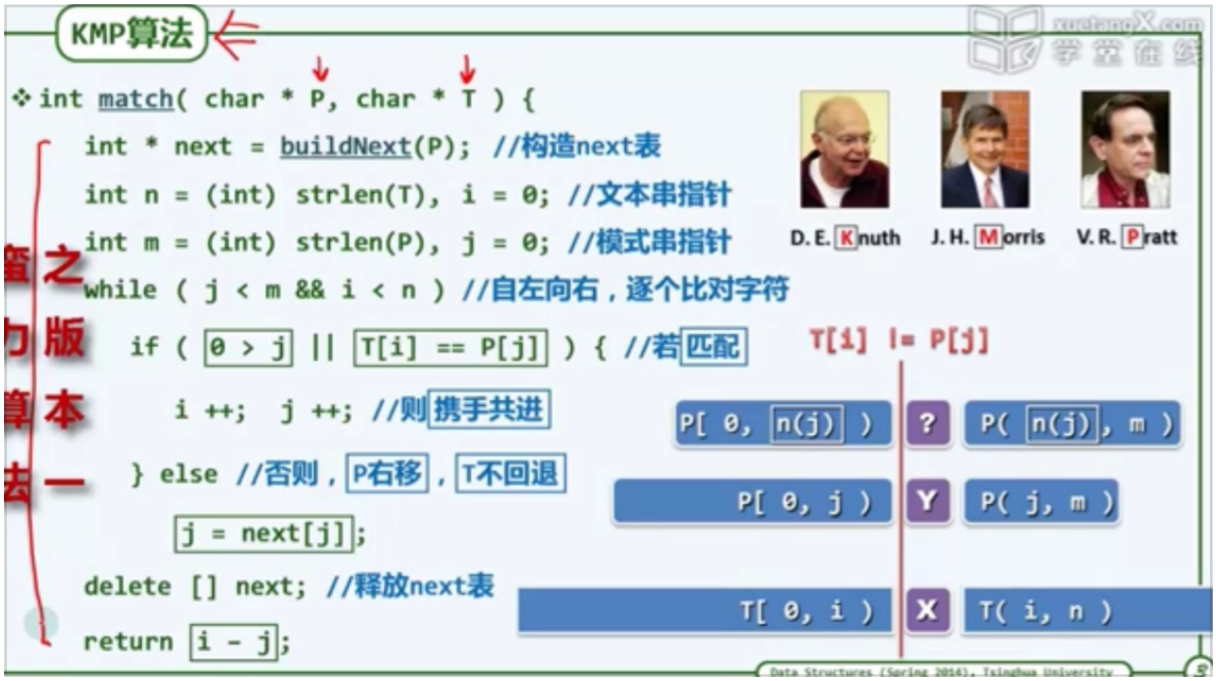
13C2 KMP算法：查询表

#数据结构邓神

制表查询



主算法




```
int match(char * P,char * T){
    int * next = buildNext(P);
    int m = (int)strlen(T);
    int n = (int)strlen(P);
    int i = 0, j =0;
```

```
    while (i < m && j < n){
        if (0 > j || T[j] == P[j]){
            i ++;
            j ++;
        }
        else {
            j = next[j];
        }
    }
    delete [] next;
    return i - j;
}
```

那么如何去构造一个next 记住这个next表仅仅取决于模式串

在失配情况下更加简明，只要 j = next[j]; 并没有修改变量 i

实例