算法 K (构造最优二叉查找树)

```
//给定 2n+1 个非负的权(p_1,\ldots,p_n;\ q_0,\ldots,q_n),本算法构造最优二叉树二叉树 t (i,j),
//在上述定义下,对权 (p_{i+1},...,p_j;q_i,...,q_j) 有极小费用
template <class T>
void BSTree<T>::OptimalBST(int p[],int q[], const int n )
     int c[n+1][n+1], w[n+1][n+1], r[n+1][n+1];
     for (i=0; i<=n; i++)
     {
          c[i][i]=0;
w[i][i]=q[i];
     for ( d=1; d<=n; d++ )
           for ( i=0; i<=n-d; i++ )
                j=i+d;
                w[i][j]=w[i][j-1]+p[j]+q[j];
                \min=c[i+1][j];
                for ( k=i+1; k<=j; k++ )
                      if ( c[i][k-1]+c[k][j] < min )
                             \{ min=c[i][k-1]+c[k][j]; m=k; \}
                c[i][j] = w[i][j]+min;
                r[i][j] = m;
           }
}
```