**package** GreedyAlgorithm;

**public class** PoliceCatchesThief {

**public static void** main(String[] args) {

**char**[] array = {**'P'**, **'T'**, **'P'**, **'T'**, **'T'**, **'P'**};

**int** kValue = 3;

**int**[] thiefCount = **new int**[100];

**int** policeCount[] = **new int**[100];

**int** length =0;

**int** index =0;

**int** index1 =0;

**int** count =0;

**for** (**int** i=0;i<array.**length**;i++)

{

**if** (array[i] == **'T'**)

{

thiefCount[index] = i;

index = index + 1;

}**else**

{

policeCount[index1] = i;

index1 = index1 + 1;

}

}

length = Math.*min*(index,index1);

**for** (**int** i=0;i<length;i++)

{

count = count + *countCatches*(kValue,policeCount,thiefCount,0,i);

}

System.***out***.println(count);

}

**public static int** countCatches(**int** kValue, **int**[] policeIndex, **int**[] thiefIndex, **int** add,**int** i)

{

**if** (Math.*abs*(policeIndex[i]-thiefIndex[i])<=kValue)

{

add = add + 1;

}**else**

{

add =0;

}

**return** add;

}

}