Java

```java
class Solution {
    public int lengthOfLongestSubstringKDistinct(String s, int k) {

    }
}
```

JavaScript

```javascript
/**
 * @param {string} s
 * @param {number} k
 * @return {number}
 */
var lengthOfLongestSubstringKDistinct = function(s, k) {

};
```

TypeScript

```typescript
function lengthOfLongestSubstringKDistinct(s: string, k: number): number {

};
```

C++

```cpp
class Solution {
```

```cpp
public:
    int lengthOfLongestSubstringKDistinct(string s, int k) {

    }
};
```

C#

```csharp
public class Solution {
    public int LengthOfLongestSubstringKDistinct(string s, int k) {

    }
}
```