

```

// Function to count number of substrings
// with exactly k unique characters
int countkDist(String str, int k)
{
    // Initialize result
    int res = 0;

    int n = str.length();

    // To store count of characters from 'a' to 'z'
    int cnt[] = new int[26];

    // Consider all substrings beginning with
    // str[i]
    for (int i = 0; i < n; i++)
    {
        int dist_count = 0;

        // Initializing count array with 0
        Arrays.fill(cnt, 0);

        // Consider all substrings between str[i..j]
        for (int j=i; j<n; j++)
        {
            // If this is a new character for this
            // substring, increment dist_count.
            if (cnt[str.charAt(j) - 'a'] == 0)
                dist_count++;

            // Increment count of current character
            cnt[str.charAt(j) - 'a']++;

            // If distinct character count becomes k,
            // then increment result.
            if (dist_count == k)
                res++;
        }
    }

    return res;
}

```