```
#define TOTAL ALPHABETS (128)
int lengthOfLongestSubstring(char * s){
   int s index;
   int e index;
   int index;
   int max_length;
   int* count;
   int a_index;
   int str_len;
   count = (int*) malloc(sizeof(int) *TOTAL_ALPHABETS);
   str_len = strlen(s);
   for(s_index = 0; s_index<TOTAL_ALPHABETS; s_index++)</pre>
       count[s_index] = -1;
   index = 0;
   s index = 0;
   max_length = 0;
   for(index = 0; index < str len; index++)</pre>
        if (count[s[index]] >= s_index)
           s_index = count[s[index]] + 1;
           count[s[index]] = index;
       }else
           count[s[index]] = index;
           if( (index - s_index + 1) > max_length)
               max_length = index - s_index + 1;
        }
   }
   return max_length;
```