```
char * countAndSay(int n) {
    char current.
    char current;
    char* tmp[2];
    int index;
    int count;
    int str_index;
    int next_str_index;
    char num;
    int alloc_length;
    alloc_length = ALLOC_LENGTH;
    tmp[0] = (char*)malloc( sizeof(char)*alloc_length );
tmp[1] = (char*)malloc( sizeof(char)*alloc_length );
    tmp[1][0] = '1';
tmp[1][1] = '\0';
    count = 0;
    for(index = 2; index <= n; index++)</pre>
         str_index = 0;
         next_str_index = 0;
num = '*';
         while(true)
              if (num == '*')
                   num = tmp[(index-1)%2][str_index];
               }else if(num != tmp[(index-1)%2][str_index])
                   next_str_index++;
                   tmp[index%2][next_str_index] = num;
                   next_str_index++;
                   if( (next_str_index+2) % alloc_length == 0)
                      alloc_length += ALLOC_LENGTH;
tmp[0] = (char*)realloc(tmp[0], sizeof(char)*alloc_length );
tmp[1] = (char*)realloc(tmp[1], sizeof(char)*alloc_length );
                   num = tmp[(index-1)%2][str_index];
                   count = 0;
              if (tmp[(index-1)%2][str_index] == '\0')
                   break;
              tmp[index%2][next_str_index] = count + '0';
              str_index++;
         tmp[index%2][next_str_index] = '\0';
    free(&tmp[(n+1)%2][0]);
    return &tmp[n%2][0];
```