Pastebin: <http://paste.ubuntu.com/24658178/>

**char** str[SIZE], pattern[SIZE];  
**int** overlap[SIZE];  
**void** kmp\_precal(){  
 overlap[0]=-1;  
 **for**(**int** i=0; pattern[i]!='\0'; i++){  
 overlap[i+1]=overlap[i]+1; */\**  
 *Overlap[i+1]=length of maximum*  
 *suffix of pattern[0, 1, 2, .... i]*  
 *that is a prefix of pattern*  
 *\*/*  
 **while**(overlap[i+1]>0 && pattern[overlap[i+1]-1]!=pattern[i]){  
 overlap[i+1]=overlap[overlap[i+1]-1] +1;  
 }  
 }  
}  
  
**int** kmp\_query(){ */\*Returns the number of appearances of pattern in str \*/*  
 **int** cnt=0;  
 **int** len=strlen(str), len2=strlen(pattern);  
 **int** i=0, ov=0, j;  
 **while**(i<len){  
 **for**(j=max(0,ov); str[i+j]!='\0' && pattern[j]!='\0' && str[i+j]==pattern[j]; j++);  
 **if**(j==len2){  
 cnt++;  
 }  
 ov=overlap[j];  
 i+=max(1, j-ov);  
 }  
 **return** cnt;  
}