**#include<stdio.h>**

**#include<string.h>**

**int main()**

**{**

**char s[101];**

**int i,l,t,j,count;**

**scanf("%d",&t);**

**getchar();**

**for(i=1; i<=t; i++)**

**{**

**gets(s);**

**l=strlen(s);**

**count=0;**

**for(j=0; j<l; j++)**

**switch(s[j]) {**

**case 'a': count=count+1;**

**break;**

**case 'b': count=count+2;**

**break;**

**case 'c': count=count+3;**

**break;**

**case 'd': count=count+1;**

**break;**

**case 'e': count=count+2;**

**break;**

**case 'f': count=count+3;**

**break;**

**case 'g': count=count+1;**

**break;**

**case 'h': count=count+2;**

**break;**

**case 'i': count=count+3;**

**break;**

**case 'j': count=count+1;**

**break;**

**case 'k': count=count+2;**

**break;**

**case 'l': count=count+3;**

**break;**

**case 'm': count=count+1;**

**break;**

**case 'n': count=count+2;**

**break;**

**case 'o': count=count+3;**

**break;**

**case 'p': count=count+1;**

**break;**

**case 'q': count=count+2;**

**break;**

**case 'r': count=count+3;**

**break;**

**case 's': count=count+4;**

**break;**

**case 't': count=count+1;**

**break;**

**case 'u': count=count+2;**

**break;**

**case 'v': count=count+3;**

**break;**

**case 'w': count=count+1;**

**break;**

**case 'x': count=count+2;**

**break;**

**case 'y': count=count+3;**

**break;**

**case 'z': count=count+4;**

**break;**

**case ' ': count=count+1;**

**break;**

**}**

**printf("Case #%d: %d\n",i,count);**

**}**

**return 0;**

**}**