#include<stdio.h>

long long compute\_hash(char \*s) {

const int p = 31;

const int m = 1e9 + 9;

long long hash\_value = 0;

long long p\_pow = 1;

for (int c=0;c<strlen(s);c++) {

hash\_value = (hash\_value + (s[c] - 'A' + 1) \* p\_pow) % m;

p\_pow = (p\_pow \* p) % m;

}

return hash\_value;

}

int main()

{

char s[1000];

printf("Enter the String (upper case)\n");

scanf("%[^\n]s",s);

printf("Hash value: %ld",compute\_hash(s));

}