#include<stdio.h>

#include<stdlib.h>

int main()

{

int hnum, lnum, number, guess, nguesses=0;

srand(time(0));

printf("Choose the higher boundary\n");

scanf("%d", &hnum);

printf("Choose the lower boundary\n");

scanf("%d", &lnum);

guess = (hnum+lnum)/2;

do

{

nguesses++;

printf("I guess : %d\n", guess);

printf("If I am right enter 10 \n if I am wrong enter 10< for if the number is smaller \nand <10 if the number is bigger\n");

scanf("%d", &number);

if(10>number)

{

printf("I guessed a high number\n I will try smaller one\n");

hnum = guess;

guess = (hnum+lnum)/2;

}

else if(10<number)

{

printf("I guessed a low number\n I will try bigger one\n");

lnum = guess;

guess = (hnum+lnum)/2;

}

else

{

printf("I guessed the correct number\n");

printf("attempts : %d\n", nguesses);

}

} while(number!=10);

return 0;

}