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// Program to find if a number is mirror number or not

#include <stdio.h>

#include <math.h>

int main() {

    int num, reverse1, reverse2, remainder1, remainder2, square, sqroot;

    reverse1 = 0;

    reverse2 = 0;

    /*If we don't initialize than without a initial value,reverse1 and
reverse2 will contain garbage values so that run time error will occur.
*/

    printf("Enter a number\n");

    scanf("%d", & num);

    square = pow(num, 2);

    while (square != 0) {

        remainder1 = square % 10;

        reverse1 = reverse1 * 10 + remainder1;

        square = square / 10;

    }

    sqroot = sqrt(reverse1);

    while (sqroot != 0) {

        remainder2 = sqroot % 10;

        reverse2 = reverse2 * 10 + remainder2;

        sqroot = sqroot / 10;

    }

    if (reverse2 == num)

        printf("number is mirror");

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else
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    printf("Not a mirror number");
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return 0;
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}
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