

TEAM Name- Gate Logics

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No. of gates used-54

No. Counters used-1

No. of comparators used-3

No. of Adder used-1

No. of registers used-2

Approach-

We counted numbers from Zero to 31 using a counter. Then took the squares of each number, and compared it with the given 10 bit input number.

If the input number was greater than the square, we moved to the next number and compared its square, else if the input number was less than the given number, we stored the previous counted number from the counter to the register.

If the input number was equal to the square calculated, we added one to the value stored in register and sent it this output, as in this case register was storing previous value.

Thus the values in output stop after the right answer is obtained, because we did stop the clock if the required square root was found.