SAGAR. S. RUCE MCAO87 Topic: finding the Square root of an Integer Suppose for example we assume that n=25. the Square root of 25 $\rightarrow \sqrt{25} = 5$ There are predefined methods are there to find of the Square Root of an Integer. for ex: math. Squt () in java Sgrt () in python etc So here we had choose the binary search for the problem to find square root of an given Integer for example take n as 28 n=28 high = 28 then low = 1 Mid find the mid value blow 2841 then $\frac{38+1}{3} = \frac{39}{3} = 14.5 = > 14$ high = 28 14 Mid low =1 then multiply 14 × 14 which is greater than 14 is not my answer

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Surely 15, 16, 17 ---- 28 will not be answer
 Then we should leave the night side and check
   for the left side. Which is of large 1-13.
-> Continue there steps until & unless you get the
   Square number which is equals to @ nearer
    of an given integer as an user parameter to
   Set the Square Root q an integer using
    binary search.
  Gode:
       int floor sqrt (intn) {
        int low = 1, high = n;
        while (Low <= high) {
           long long mid = (low +high)/2;
           long long val = mid + mid;
            if (val <=n) {
              low = mid +1;
              } else {
                high = mid - 1;
             return high; Il correct placement outside the loop
```