

-) Traverse left side return rolul-j Binary Search $low = \emptyset$, high = 90123456784 arr = [000011111] 3 mid = XZZ 7=10 binary Seerch (arr, 10w, high)d While (10wq = high) q falle mid = 100 + (high - 100)/2) if (arr(mid) = = 0)Right side traverse Low= mid+/ eled Left side traverse high = mid - 1; return (n-low);

 $\frac{10-4=0}{\text{count-d}}$

mumber of

|V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9] |V| = |[2, 5, 5, 5, 6, 6, 8, 9, 9, 9]

frequency = |autOcc - firstOcc + 1|= 3-1+1

> = 3 -----

num = 16 (ow=0) high = 8 (num/2); (mid = 4) while (lowd = high) if (mid x mid = = num) of return true; else if (mid*mid & num) & // Right side low = mid+1; ele « 11 Left side high = mid -1;