∴ Binary Search Questions - 2 ∴

Q -> Find Minimum Absolute Difference Element.

arr[] = [2, 4, 8, 12, 13, 17, 19];

Absolute Difference :

Target = 12.

|10 - 12| < |41| = 2

|16 - 10| < |-4| = 2

Target - arr[j] < val

arr[] : 2, 4, 8, 12, 13, 17, 19

- Target : 12, 12, 12, 12, 12, 12, 12

: 10, 8, 4, 0, 1, 5, 7.

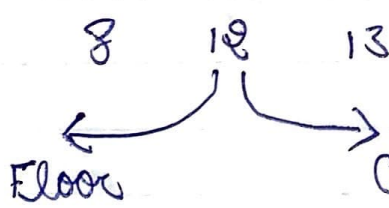
↓

0 will be the best case for Minimum Absolute Difference Element.

Note :

The answer can be from floor of target or

Ans can be from the ceiling of the target!



Experiment :

Date

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(MAD) = Target ✓
otherwise
mid (floor & ceil).

Interview Que

→ Q: Find Element in Infinite Array.

arr[] = {2, 4, 9, 13, 17, 19, 28 .....

Target → 25.

→ Infinite Size
→ Sorted Array.

0, 1, 2, 3, 4, 5, 6, 7, 8.

T = 5

T <= End.

0	1	2	3	4	5	6	7	8
0	1	2	3	4	5	6	7	8
↓	↓	↓		↓				↓
S	E	E		E				E.

```
if ( T <= End )
{
    End * 2
}
```

Note :

If the end will shift forward. Then Start will also be move forward.

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