

## Search Algorithm

Sunday, January 28, 2024 7:54 PM

$$\text{Start} = 0$$
$$\text{end} = 19$$

$$0 \leq 19$$

$$\text{mid} = 9$$

$$\text{arr} = 12$$

$$\text{List}[9] = 9$$

$$12 < 9$$

$$\text{start} = 10$$

$$\text{end} = 19$$

$$mid = 14$$

$$List[14] = 14$$

$$12 \leftarrow 14$$

$$end = \underline{13}$$

$$start = 10$$

$$mid = 11$$

$$List[11] = 11$$

$$12 \leftarrow 11$$

$$\text{start} = 11$$

$$\text{end} = 13$$

$$\text{mid} = 12$$

$$\text{List}[12] = 12$$