

```
public static float median(int[] array) {  
    float b;  
    if (array.length % 2 == 1)  
        b = array[array.length / 2];  
    else  
        b = (array[array.length / 2 - 1] + array[array.length / 2]) / 2f;  
    return b;  
}
```

The diagram illustrates the execution flow of the provided Java code. It features several nodes and directed edges:

- Grey nodes:** Located at the start of the `if` statement, the `else` statement, and the `return` statement.
- Orange nodes:** Located at the assignment `b = array[array.length / 2];` and the assignment `b = (array[array.length / 2 - 1] + array[array.length / 2]) / 2f;`.
- Yellow nodes:** Two yellow nodes are present in the background, one near the top right and one near the middle right.
- Edges:**
 - A grey edge connects the first grey node to the orange node for the odd-length case.
 - A grey edge connects the second grey node to the orange node for the even-length case.
 - Orange edges connect the orange nodes to the final grey node at the `return` statement.