

```
static int binaryToDecimal(String str, int position) {  
    if (position < 0) {  
        return 0;  
    } else if (str.charAt(position) == '0') {  
        return 2 * binaryToDecimal(str, position - 1);  
    }  
  
    return 1 + 2 * binaryToDecimal(str, position - 1);  
}
```

The diagram illustrates the recursive process of the `binaryToDecimal` function. It features several colored circles (yellow, orange, purple, pink) and lines connecting them to specific parts of the code. A yellow circle on the left points to the function signature. Orange circles and lines highlight the recursive calls, such as `binaryToDecimal(str, position - 1)` in the `else if` block and the final `return` statement. Purple and pink circles and lines highlight the return values, showing how they are propagated back up the call stack. For example, a purple circle points to the `return 0` in the base case, and another points to the `return 1 + 2 * ...` in the final step.