

```
for (int value : out) {  
    System.out.print("" + value + " ");  
}  
}  
  
public static int[] dropNumber(int[] input, int pos) {  
    if (input.length == 0 || pos >= input.length) {  
        throw new IllegalArgumentException();  
    }  
  
    int[] result = new int[input.length - 1];  
  
    for (int i = 0; i < pos; i++) {  
        result[i] = input[i];  
    }  
  
    for (int i = pos; i + 1 < input.length; i++) {  
        result[i] = input[i + 1];  
    }  
  
    return result;  
}
```

The diagram illustrates data flow between different parts of the code. It features several clusters of colored circles: dark purple at the top, red in the middle, and yellow at the bottom. Lines connect these clusters to specific code elements. For example, a red line connects a red circle to the `if` statement, and a yellow line connects a yellow circle to the `for` loop starting at `i = pos`. The circles are semi-transparent, allowing the code text to be seen through them.