

```

Static void mystery1 (int n){
    if (n==0) return;
    System.out.print(n % 10);
    mystery1(n/10);
}

```

→ takes the last digit of n

Mystery 1

(1) Output: 951413

(2) Reverses the numbers

```

Static int mystery2 (int n){
    if (n==0) return 0;
    return (n % 10) + mystery2(n/10);
}

```

Mystery 2

(1) Output: $9+5+1+4+1+3=23$

(2) Adds all the numbers together

```

Static int mystery3 (int arr[], int i){
    if (i == -1) return 0;
    return arr[i] + mystery3(arr, i-1);
}

```

Mystery 3

(1) Output: $9+5+4+3+1+0=23$

(2) Adds alls the numbers in the array together

```

Static boolean mystery4 (int arr[], int i){
    if (i == arr.length - 1) return true;
    if (arr[i] > arr[i+1]) return false;
    return (mystery4(arr, i+1));
}

```

3>1

Mystery 4

(1) Output: False

(2) return false and doesn't execute line 37

```

Static void mystery5 (int n){
    if (n==0) return;
    System.out.print(n + " ");
    mystery5(n-1);
}

```

Mystery 5

(1) Output: 5 4 3 2 1

(2) Counts down by intervals of 1

```

Static void mystery6 (int n){
    if (n==0) return;
    mystery6(n-1);
    System.out.print(n + " ");
}

```

Mystery 6

(1) Output: 1 2 3 4 5

(2) Counts up to the entered integer

```

Static void mystery7 (int n){
    if (n==0) return;
    System.out.print(n + " ");
    mystery7(n-1);
    System.out.print(n + " ");
}

```

Mystery 7

(1) Output: 5432112345

(2) Counting down then counts back up