

SUMMARY OF JAVA STANDARD LIBRARY METHODS FOR SELECTED CLASSES

• String (package java.lang) Methods:

- public boolean equals(Object anObject): Compares this String to anObject.
- public boolean equalsIgnoreCase(String anotherString): Compares, ignoring case considerations, this String to anotherString.
- public int compareTo(String anotherString): Compares this String to anotherString lexicographically; returns a negative value if this String occurs before anotherString, a positive value if this String occurs after anotherString, and 0 if both Strings are equal.
- public int compareToIgnoreCase(String anotherString): Compares, ignoring case considerations, this String to anotherString lexicographically; returns a negative value if this String occurs before anotherString, a positive value if this String occurs after anotherString, and 0 if both Strings are equal.
- public char[] toCharArray(): Converts this String to a new character array.

• Scanner (package java.util) Methods:

- public Scanner(InputStream source): Constructs a new Scanner that produces values scanned from the specified input stream.
- public double nextDouble(): Scans the next token of the input as a double.
- public int nextInt(): Scans the next token of the input as an int.
- public String nextLine(): Advances this Scanner past the current line and returns the input read.
- public long nextLong(): Scans the next token of the input as a long.

• PrintStream (package java.io) Methods:

- public void print(boolean b): Prints boolean value b.
- public void print(char c): Prints char value c.
- public void print(char[] s): Prints the array of char s.
- public void print(double d): Prints double value d.
- public void print(int i): Prints int value i.
- public void print(Object o): Prints Object o.
- public void print(String s): Prints String s.
- public void println(): Terminates the current line by writing the line separator string.
- public void println(boolean b): Prints boolean value b and then terminates the line.
- public void println(char c): Prints char value c and then terminates the line.
- public void println(char[] s): Prints array of char s and then terminates the line.
- public void println(double d): Prints double value d and then terminates the line.
- public void println(int i): Prints int value i and then terminates the line.
- public void println(Object o): Prints Object o and then terminates the line.
- public void println(String s): Prints String s and then terminates the line.

• Math (package java.lang) Methods:

- public static double pow(double a, double b): Returns the value of a raised to the power of b.
- public static double sqrt(double a): Returns the correctly rounded positive square root of double value a.
- public static double random(): Returns a double value with a positive sign, greater than or equal to 0.0 and less than 1.0.
- public static double sin(double a): Returns the trigonometric sine of angle a, where a is in radians.
- public static double cos(double a): Returns the trigonometric cosine of angle a, where a is in radians.
- public static double tan(double a): Returns the trigonometric tangent of angle a, where a is in radians.
- public static double toDegrees(double angrad): Converts angle angrad measured in radians to an approximately equivalent angle measured in degrees.

- `public static double toRadians(double angdeg)`: Converts angle `angdeg` measured in degrees to an approximately equivalent angle measured in radians.
 - `public static double exp(double a)`: Returns Euler's number e raised to the power of double value `a`.
 - `public static double log(double a)`: Returns the natural logarithm (base e) of double value `a`.
 - `public static double log10(double a)`: Returns the base 10 logarithm of double value `a`.
- **Character (package `java.lang`) Methods:**
 - `public static boolean isDigit(char ch)`: Determines if character `ch` is a digit.
 - `public static int digit(char ch, int radix)`: Returns the numeric value of character `ch` in the radix `radix`, -1 if `ch` does not represent a digit in this radix.
 - `public static char forDigit(int digit, int radix)`: Returns the character representation of digit in the radix `radix`.
 - `public static boolean isLetter(char ch)`: Determines if character `ch` is a letter.
 - `public static boolean isLowerCase(char ch)`: Determines if character `ch` is a lowercase character.
 - `public static boolean isUpperCase(char ch)`: Determines if character `ch` is an uppercase character.
 - `public static boolean isWhitespace(char ch)`: Determines if character `ch` is white space according to Java.
 - `public static char toLowerCase(char ch)`: Converts character `ch` to lowercase.
 - `public static char toUpperCase(char ch)`: Converts character `ch` to uppercase.

DESCRIPTIONS OF CLASSES AND METHODS PROVIDED SPECIFICALLY FOR THE EXAMINATION, IF ANY, WILL BE LISTED HERE