Methods available in ConsoleProgram	GObject Common Methods

Methods available in ConsoleProgram
```
int readInt(String prompt)
double readDouble(String prompt)
String readLine(String prompt)
void println(what-to-print)
void print(what-to-print)
void add(component, where)
```

GObject Common Methods
```
double getX()
double getY()
double getWidth()
double getHeight()
void move(double dx, double dy)
void setLocation(double x, double y)
void setColor(Color c)
```

Methods available in GraphicsProgram
```
void add(GObject obj)
void remove(GObject obj)s
void removeAll()
void addMouseListeners()
int getWidth()
int getHeight()
GObject getElementAt(double x, double y)
void pause(double milliseconds)
void add(component, where)
```

GObject Constructors
```
new GRect(double x, double y,
          double width, double height)
new GOval(double x, double y,
          double width, double height)
new GLine(double x0, double y0,
          double x1, double y1)
new GLabel(String text)
```

Event Handlers
```
void mousePressed(MouseEvent e)
void mouseReleased(MouseEvent e)
void mouseClicked(MouseEvent e)
void mouseMoved(MouseEvent e)
void mouseDragged(MouseEvent e)
void mouseEntered(MouseEvent e)
void mouseExited(MouseEvent e)
```

Fillable Object Methods
```
void setFilled(boolean isFilled)
void setFillColor(Color fillColor)
```

RandomGenerator Methods
```
RandomGenerator getInstance()
int nextInt(int low, int hi)
double nextDouble(double low, double hi)
boolean nextBoolean(double probability)
Color nextColor()
```

GLabel Methods
```
void setFont(String fontString)
double getAscent()
double getDescent()
String getLabel();
void setLabel(String label)
```

String Methods
```
char charAt(int index)
int length()
int indexOf(text)
int indexOf(text, int startPoint)
String substring(int start)
String substring(int start, int end)
String toLowerCase()
String toUpperCase()
boolean equals(other-string)
```

MouseEvent Methods
```
int getX()
int getY()
```

Character methods
```
boolean Character.isLetter(char ch)
boolean Character.isDigit(char ch)
boolean Character.isWhitespace(char ch)
boolean Character.isLowerCase(char ch)
boolean Character.isUpperCase(char ch)
boolean Character.isLowerCase(char ch)
boolean Character.isLetterOrDigit(char ch)
char Character.toLowerCase(char ch)
char Character.toUpperCase(char ch)
```

Parsing Methods
```
int Integer.parseInt(String text)
double Double.parseDouble(String text)
```

File I/O
```java
try {
    BufferedReader br =
      new BufferedReader(new FileReader(filename)

    while (true) {
        String line = br.readLine();
        if (line == null) break;

        /* … process line … */
    }

    br.close();
} catch (IOException e) {
    /* … handle error … */
}
```

ArrayList<T> Methods
```
void add(T elem)
T get(int index)
int size()
void setAt(int index, T newValue)
void remove(int index)
boolean contains(T elem)
```

HashMap<Key, Value> Methods
```
Value put(Key key, Value value)
Value get(Key key)
boolean containsKey(Key key)
```

GImage Methods
```
int[][] getPixelArray()
int createRGBPixel(int r, int g, int b)
int getRed(int color)
int getGreen(int color)
int getBlue(int color)
```

StdAudio Methods
```
double[] read(String filename)
void play(double[] soundClip)
```