## The Jack OS API

Math A function int multiply(int x, int y): у. Math.multiply(x,y) x\*y function int divide(int x, int y): x/y. Math.divide(x,y) x/y function int min(int x, int y): у. function int max(int x, int y): у. function int sqrt(int x): Χ. **String** constructor String new(int maxLength): maxLength method int dispose(): method int length(): method char charAt(int j): jmethod void setCharAt(int j, char c): j-С. method String appendChar(char c): method void eraseLastChar(): method int intValue(): method void setInt(int val): function char backSpace(): function char doubleQuote(): (") function char newLine():

A , . 2 .

**Array** 

```
Array
                                                   arr[i].
function Array new(int size):
method void dispose():
Output
A
                                              256
                                  512
                                                        11
                                            2
                                                                            ).
                           23
                                            0..22,
        0..63,
                                                                              (0,0). A
function void moveCursor(int i, int j):
                                                             j-
function void printChar(char c):
function void printString(String s):
function void printInt(int i):
function void println():
function void backSpace():
Screen
A
512
                 0..511,
                                         256
                                                                0..255,
                                   (0,0).
function void clearScreen():
function void setColor(boolean b):
                                                                                  drawXXX
                                                     false.
                                      true,
function void drawPixel(int x, int y):
function void drawLine(int x1, int y1, int x2, int y2):
                                                                            (x1,y1)
          (x2,y2),
function void drawRectangle(int x1, int y1, int x2, int y2):
                     (x1,y1)
                                                     (x2,y2),
function void drawCircle(int x, int y, int r):
                                                                         r≤181
     (x,y),
        Α , .
```

## **Keyboard**

```
function char keyPressed():
                                         0.
                   : newline (128=String.newline()), backspace (129=String.backspace()),
     left arrow (130), up arrow (131), right arrow (132), down arrow (133), home (134), end
     (135), page up (136), page down (137), insert (138), delete (139), ESC (140), F1-F12
     (141-152).
function char readChar():
function String readLine(String message):
                                    newline
                        . A
function int readInt(String message):
                                    newline
             ). A
Memory
                                                                            (RAM),
                                                                 32,768
                                                   RAM
 16-
function int peek(int address):
                                           RAM
function void poke(int address, int value):
                                                    RAM
function Array alloc(int size):
                                                 RAM
function void deAlloc(Array o):
Sys
Α
function void halt():
function void error(int errorCode):
     "ERR<errorCode>",
function void wait(int duration):
                                                      duration
```

A . . 2 .