



I045 – Moderni računalni sustavi

Vježbe 11

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Zadatak

Hello world!



Zadatak

Napišite .jack program u kojemu korisnik unosi duljinu liste, pa zatim elemente liste. Na kraju program treba ispisati najveći element te liste.



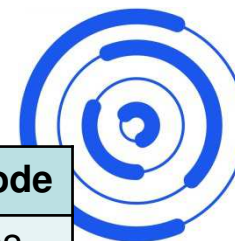
Zadatak

Implementirajte funkcije `catStr` (konkatenacija stringova), `catInt` (konkatenacija stringa i inta) i `repeat` (ponavlja string `n` puta) u klasi `stringLib`.



Zadatak

Implementirajte klasu Square sa metodama grow, shrink i move koje omogućavaju mijenjane veličine i pomicanje kvadrata.



key	code
(space)	32
!	33
“	34
#	35
\$	36
%	37
&	38
‘	39
(40
)	41
*	42
+	43
,	44
-	45
.	46
/	47

key	code
0	48
1	49
...	...
9	57
:	58
;	59
<	60
=	61
>	62
?	63
@	64

key	code
A	65
B	66
C	...
...	...
Z	90
[91
/	92
]	93
^	94
_	95
`	96

key	code
a	97
b	98
c	99
...	...
z	122
{	123
	124
}	125
~	126

key	code
newline	128
backspace	129
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	141
...	...
f12	152



HACK operativni sustav

```
Class String
{
    constructor String new(int maxLength)
    method void    dispose()
    method int     length()
    method char    charAt(int j)
    method void    setCharAt(int j, char c)
    method String  appendChar(char c)
    method void    eraseLastChar()
    method int     intValue()
    method void    setInt(int j)
    function char  backSpace()
    function char  doubleQuote()
    function char  newLine()
}
```



HACK operativni sustav

Class `String`

```
class Math
{
    function void init()
    function int abs(int x)
    function int multiply(int x, int y)
    function int divide(int x, int y)
    function int min(int x, int y)
    function int max(int x, int y)
    function int sqrt(int x)
}
```




HACK operativni sustav

Class `String`

class `Math`

Class `Screen`

{

function void `clearScreen()`

function void `setColor(boolean b)`

function void `drawPixel(int x, int y)`

function void `drawLine(int x1, int y1, int x2, int y2)`

function void `drawRectangle(int x1, int y1, int x2, int y2)`

function void `drawCircle(int x, int y, int r)`

}



HACK operativni sustav

Class `String`

class `Math`

Class `Screen`

class `Output`

```
{  
    function void moveCursor(int i, int j)  
    function void printChar(char c)  
    function void printString(String s)  
    function void printInt(int i)  
    function void println()  
    function void backSpace()  
}
```



HACK operativni sustav

```
Class String
```

```
class Math
```

```
Class Screen
```

```
class Output
```

```
Class Keyboard
```

```
{
```

```
function char keyPressed()
```

```
function char readChar()
```

```
function String readLine(String message)
```

```
function int readInt(String message)
```

```
}
```



HACK operativni sustav

```
Class String
```

```
class Math
```

```
Class Screen
```

```
class Output
```

```
Class Keyboard
```

```
class Memory
```

```
{
```

```
function int peek(int address)
```

```
function void poke(int address, int value)
```

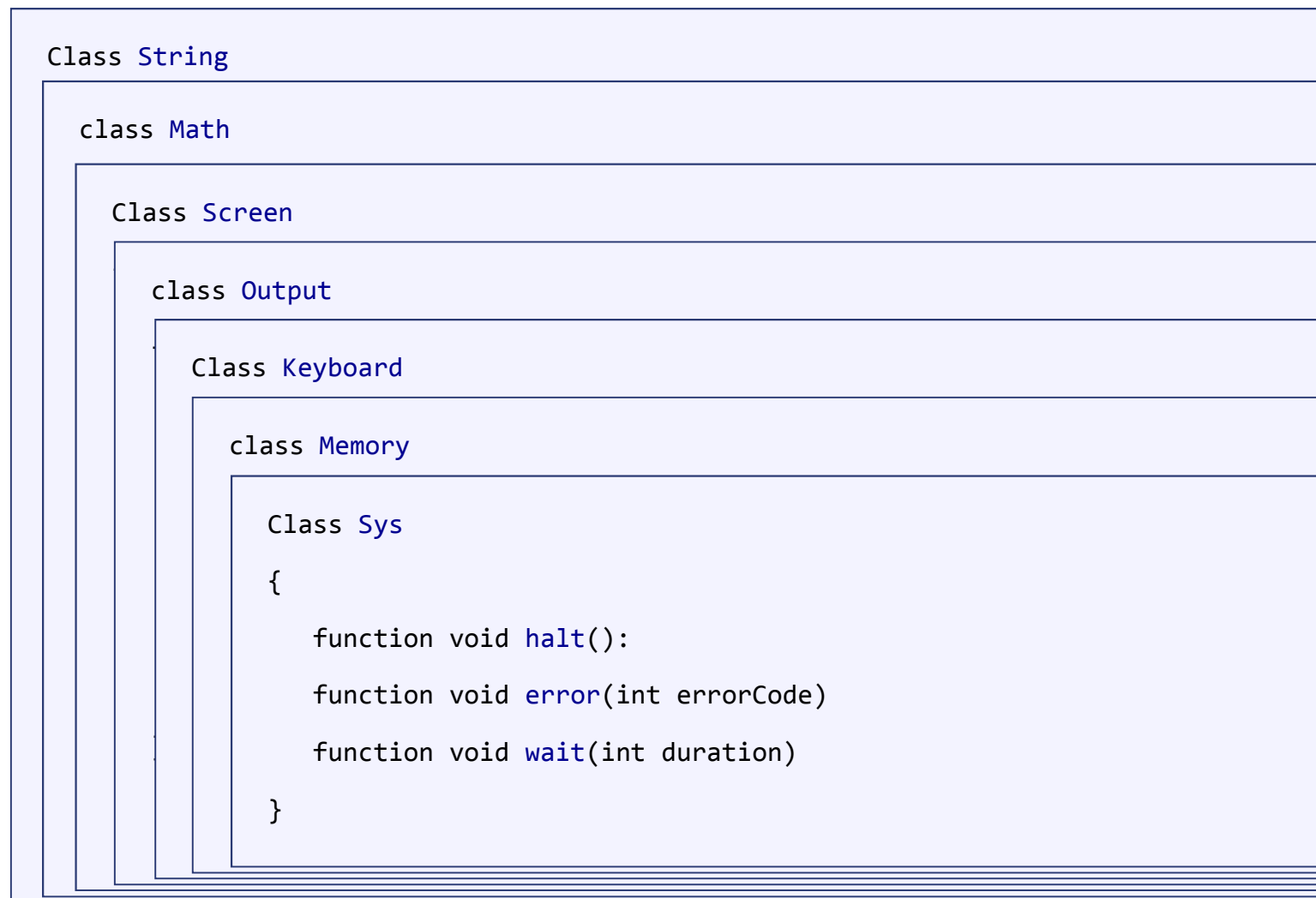
```
function Array alloc(int size)
```

```
function void deAlloc(Array o)
```

```
}
```



HACK operativni sustav





HACK operativni sustav

