**SAMPLE RUNS**

**PROBLEM 1:**

*Input:*

**stringTokenizer("this is terrible", #" ");**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- val rev = fn : 'a list \* 'a list -> 'a list

val stringTokenH = fn

: char list \* char list \* string list \* char -> string list

val stringTokenizer = fn : string \* char -> string list

val it = ["this","is","terrible"] : string list

**PROBLEM 2:**

*Input:*

**subString("ab", "aeababf");**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- stdIn:5.22 Warning: calling polyEqual

val checkString = fn : ''a list \* ''a list -> bool

val subStringH = fn : ''a list \* ''a list \* int -> int

val subString = fn : string \* string -> int

val it = 2 : int

**PROBLEM 3:**

*Input:*

**pTriangle(5);**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- val pTriangleH = fn : int \* int \* int -> int list

val pTadder = fn : int \* int -> int list list

val pTriangle = fn : int -> int list list

val it = [[1],[1,1],[1,2,1],[1,3,3,1],[1,4,6,4,1],[1,5,10,10,5,1]]

: int list list

**PROBLEM 4:**

*Input:*

**modeL([1,1,2,6,6,5,4]);**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- stdIn:7.14 Warning: calling polyEqual

val occrH = fn : ''a \* (''a \* int) list -> (''a \* int) list

val occr = fn : ''a list -> (''a \* int) list

stdIn:20.54-20.56 Warning: calling polyEqual

val modeDupCheck = fn

: (''a \* int) list \* (''a \* int) list -> (''a \* int) list

val modeLH = fn : (''a \* int) list \* (''a \* int) -> (''a \* int) list

val modeL = fn : int list -> (int \* int) list

val it = [(1,2),(6,2)] : (int \* int) list

**PROBLEM 5:**

*Input:*

**permu(3);**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- val frontall = fn : 'a \* 'a list list -> 'a list list

val inseach = fn : 'a \* 'a list -> 'a list list

val putInAll = fn : 'a \* 'a list list -> 'a list list

val perm = fn : 'a list \* 'a list list -> 'a list list

val popList = fn : int \* int -> int list

val permu = fn : int -> int list list

val it = [[3,2,1],[2,3,1],[2,1,3],[3,1,2],[1,3,2],[1,2,3]] : int list list

**PROBLEM 6:**

*Input:*

**ssort([232,55,6,800,20,9,55]);**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- val delete = fn : int list \* int -> int list

val ssComp = fn : int \* int list -> int

val ssHelper = fn : int list \* int list -> int list

val ssort = fn : int list -> int list

val it = [6,9,20,55,55,232,800] : int list

**PROBLEM 7:**

*Input:*

**plist(20);**

***OUTPUT:***

Standard ML of New Jersey v110.76 [built: Mon Aug 19 10:38:12 2013]

- val filter = fn : ('a \* int -> bool) \* 'a list -> 'a list

val popList = fn : int \* int -> int list

val primeTestH = fn : int \* int -> bool

val plist = fn : int -> int list

val it = [2,3,5,7,11,13,17,19] : int list