# Pseudocode Explanation Worksheet

Look at the Pseudocode and explain what is happening in the Explanation box and see if you can name the algorithms:

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| **Pseudocode** | **Explanation** |
| repeat swapflag = false for count = 1 to n - 1 if bubbleitem[count]>bubbleitem[count + 1] then temp = bubbleitem[count] bubbleitem[count] = bubbleitem[count + 1] bubbleitem[count + 1] = temp swapflag = true end if next n = n - 1until swapflag = false or n = 1 |  |
| for outerloop = 1 to arraylength - 1 temp = item[outerloop] innerloop = outerloop while (innerloop > 0 and item[innerloop - 1] >= temp) item[innerloop] = item[innerloop - 1] innerloop = innerloop - 1 end while item[innerloop] = tempnext outerloop |  |

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| for outerloop = 0 to arraylength - 2 minvalue = outerloop for innerloop = outerloop + 1 to arraylength - 1 if item[innerloop] < item[minvalue] then minvalue = innerloop next innerloop temp = item[outerloop] item[outerloop] = item[minvalue] item[minvalue] = tempnext outerloop |  |
| h = 1while (h<=arraylength/3) h = h \* 3 +1end whilewhile (h > 0) for outerloop = h to arraylength - 1 temp = item[outerloop] innerloop = outerloop while (innerloop > h - 1 and item[innerloop - h] >= temp) item[innerloop] = item[innerloop - h] innerloop = innerloop - h end while item[innerloop] = temp next outerloop h = (h - 1)/3end while |  |

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| open the file with name n for input if(the file couldn't be opened) report the error return //end if while( get the next character) output the next character //end while close the file end algorithm |  |
| if(a<0 OR e<=0) throw an error //end if set x=0.5\*a. set y=0. // here y <= sqrt(a) <= x while( abs(x-y)>e ) // here y <= sqrt(a) <= x set m = (x+y)\*0.5 if( m\*m < a) // here m <= sqrt(a) <= x set y=m else // here y <= sqrt(a) <= m set x=m //end if //end while return y. |  |
| if( x < 0 OR y < 0) throw an error exit //end if set integer z = 0. for( integer i = 1 to y) set z = z + x //end for return z |  |
| for x = 1 to 10  for y = 1 to 10  if gameboard[x][y] = 0  do nothing  else  call thecall(x, y) (recursive method)  increment counter  end if end forend for |  |

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