## **ECOO 2012 ROUND 3 QUESTIONS**

May 12, 2012

# **Problem 1 – The Word Garden**

#### **FIRST TRY**

Suggested Marking Scheme

Input file name: DATA11.txt

Award 20 marks for each exactly correct line of word trees. If all the individual word trees are formatted correctly but one or more are not placed correctly (exactly as shown) award 10 points for that line. If the ground has too many or too few characters (should be 40), deduct 5 points in each case.

Allow students to scroll or resize the output window. Allow them to present one row at a time under input control. If necessary, allow them to copy and paste their output to Notepad or a similar fixed-width font text editor. Unless a fixed-width font is used, the word trees will not look right.

Note that the rows of trees are presented side by side here with numbering, but will appear one after another in the students' output with no numbering.

Award 10 bonus marks if all 5 rows are correct.

4		G	
		GeG	
♣	_	GeoeG	f
		GeoroeG	fof
d		h GeorgroeG	forof
drd		hih GeorgigroeG	formrof
h drerd t	h	ilihGeorgiaigroeG	s formemrof
hah dreaerd tht	hi	.lllih G s	osformeremrof
havahdreamaerdthaht o d	t rhil	lsllih e t so	nos f
havevah d thatahtono dad	tht rer	h o thtson	isnos o
h r t onenodayadot	heht reder	i o rtheht	so r
a e ho dono	r	lofo g t	oofo m
I vaaan ao	h e	lo ih	n o e
I eam te y n	e d	s fae	sf r
	======		

.3		
s	f	b
sls	fof	brb
slals	forof s	<b>J</b> brorb
slavals	formrof sls	brotorb
slavevals	s formemrof slals	brothtorb
slavesevals	sosformeremrofslavals	brothehtorb
s a t	sonos f slavevals	t brotherehtorb
l ana thts	sonsnos o s	tot brotherhrehtorb
aandnatheht	tsor 1	togot brotherhohrehtorb
v a t	oofo m a	togegot brotherhooohrehtorb
e n h	no e v	togetegotbrotherhoodoohrehtorb
s d e	sfre	togethtegot b
==========		togethehtegot t r
		togetherehtegot tat o
0		t tabat t
Owo		o tablbat h
ownwo		g ttablelbate
ownenwo		e tht t r
ownerenwo w	a d	t atheht a o h
ownersrenwowiw	aba dod	hata t bofo o
o wiliw	ablba s dowod	eah loo
w willliv	vablelbasisdownwod	rte efd
n w b	a tsitis d	=======================================
e ibeb	btot s o	
r 1 $b$	lti w	
s le	eot n	
===========		

## **ECOO 2012 ROUND 3 QUESTIONS**

May 12, 2012

# **Problem 1 – The Word Garden**

### **SECOND TRY**

Suggested Marking Scheme

Input file name: DATA12.txt

Award 20 marks for each exactly correct line of word trees. If all the individual word trees are formatted correctly but one or more are not placed correctly (exactly as shown) award 10 points for that line. If the ground has too many or too few characters (should be 40), deduct 5 points in each case.

Allow students to scroll or resize the output window. Allow them to present one row at a time under input control. If necessary, allow them to copy and paste their output to Notepad or a similar fixed-width font text editor. Unless a fixed-width font is used, the word trees will not look right.

Note that the rows of trees are presented side by side here with numbering, but will appear one after another in the students' output with no numbering.

С

1					2 chc chihc chilinc
				1	childlihc n
				lil	childrdlihc nan
	d			litil	childrerdlihc natan
	drd			litttil	childrenerdlihc natitan
h	drerd	t	f	littlttil	c w l natioitan
hah	dreaerd	tht	fofl	ittlelttil	h wiw lilnationoitan
haval	ndreamaer	dthaht	fouof	1	i wiliw o d livil n
haveva	ah d	thatahti	Eouruc	f i	lwillliwono dadlivevil a
h	r	t m	£	t	d w onenodayad li t
a	е	hmym	0	t	r i o d iini i
I va	а	a m	u	1	e l n a via o
I ea	m	t y	r	е	n le y ena n
=====	======	======		========	

3 w whw			j juj juduj judgduj
whehw	t	W	judgegduj
wherehw	tht	wiw	judgedegduj
whererehw	theht	wiliw	n j t
w t	heyeht	willliw	wnon u tht
h	t	w r	notonb d btheht
е	h	i	n bebgbyb t
r	е	1	o beb h
е	У	1	t edy e
=======	=====	======	==========
d coc coloc colouolo		-	s
colouruol			ks
С		iehtski	iks b t
0	t	skir	niksbub tht
1 0	h	S	s butubbtheht
oofo	e	k	k b byb t
u o	i		i ubh
r f	r	r	n tye
=======	======	======	===============

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5		c chc chahc
3		charahc
С	cl	hararahc
COC	cha	aracarahc
conoc	chai	ractcarahc
contnoc	chara	actetcarahc
contetnoc	tchara	cteretcarahc
contenetno	c tht	C
contentnetne	octheht	h
C	theieht	a
0	theirieht	r
n	t	a
t o	h	C
eofo	е	t
n o	i	е
t f	r	r