

# **UIL Computer Science Competition**

## Region 2019

## JUDGES PACKET - CONFIDENTIAL

### I. Instructions

- The attached printouts of the judge test data are provided for the reference of the contest director and programming judges. Additional copies may be made if needed for this purpose.
- 2. This packet must remain CONFIDENTIAL. Additional copies may be made and returned to schools when other confidential contest material is returned.

### II. Table of Contents

Number	Name
Problem 1	Andy
Problem 2	Belle
Problem 3	Callen
Problem 4	Deborah
Problem 5	Gregory
Problem 6	Jordan
Problem 7	Kavya
Problem 8	Lucie
Problem 9	Mateusz
Problem 10	Nishi
Problem 11	Rosa
Problem 12	Vova

# Problem #1 60 Points

## 1. Andy

Program Name: Andy.java Input File: None

### **Test Output To Screen:**

00000+

00000++

00000+++

00000++++

xxxx++++

xxxxx+++

xxxxx++

xxxxx+

# Problem #2 60 Points

## 2. Belle

Program Name: Belle.java Input File: belle.dat

## **Test Input File:**

10 28 21 3 7

0 6

14 24 3 7

11 8 6 6

42 7

2 3 14 3

## **Test Output To Screen:**

7

6

24 7

11

6 42

3 14

# Problem #3 60 Points

## 3. Callen

Program Name: Callen.java Input File: callen.dat

### **Test Input File:**

20 -10 10 15 30 5 -110 0 25 70 20 15 50 -30 5 5 100 5 30 -50 4 3 70 3

### **Test Output To Screen:**

1 CSt			UBC	ıccıı	١.																		
Temps 20 10		20 4.2 -8.9	25 2.6 -10.7																				
			-24.1																				
			-37.5	-39.4																			
******			***																				
Temps 0 -25 -50	-54.8 -87.6	35 -27.4 -61.8 -96.2	50 -31.1 -66.6 -102.2 -137.7	-70.4 -106.7																			
			-173.2																				
*****																							
W	ind Spe																						
Temps	. 5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100			
	48.2	46.0	44.6	43.6	42.8	42.0	41.4		40.4			39.1	38.8	38.4			37.6		37.0	36.8			
45 40	42.3 36.5	39.8	38.2	37.0	36.1 29.4	35.3 28.5	34.5 27.7	33.9 26.9	33.3	32.8 25.7	32.4 25.2	31.9 24.7	31.5	31.1 23.8	30.8 23.4	30.4	30.1 22.6	29.8	29.5	29.2			
35	30.6			23.9	22.7	21.7				18.6				16.5		15.6	15.2		14.4				
30	24.7			17.4		14.9		13.0		11.5	10.9	10.2	9.7	9.1	8.6	8.2	7.7	7.3	6.9	6.5			
25	18.9	15.1	12.6	10.8	9.3	8.1	7.0	6.1	5.2	4.4	3.7	3.0	2.4	1.8	1.3	0.8	0.3	-0.2	-0.7	-1.1			
20	13.0	8.9	6.2	4.2	2.6	1.3	0.1	-0.9		-2.7			-4.9			-6.7			-8.2	-8.7			
15 10	7.1	2.7 -3.5	-0.2 -6.6	-2.3	-4.0	-5.5										-14.1 -21.5							
5	-4.6															-28.9							
ő																-36.3							
	-16.4	-22.1	-25.8	-28.6	-30.8	-32.7	-34.3	-35.7	-37.0	-38.2	-39.3	-40.3	-41.3	-42.1	-43.0	-43.7	-44.5	-45.2	-45.9	-46.5			
																-51.2							
																-58.6 -66.0							
																-73.4							
																-80.8							
******	*****	*****	***																				
W	ind Spe																						
Temps	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69
	27.1	19.1		15.2	19.0 13.9	12.8	11.8	10.9		9.4	14.3	8.2	13.2 7.6	12.7	6.6	11.8	5.7	11.0	10.6 4.9	10.2	9.9 4.1	9.6 3.7	9.2
22	18.0		12.0	10.2	8.8	7.6	6.5	5.6	4.8	4.0	3.3	2.7	2.1	1.5	1.0	0.5			-0.9	-1.3	-1.7	-2.1	-2.5
18	13.5	9.6	7.1	5.2	3.7	2.4	1.3		-0.6		-2.2					-5.2				-7.1	-7.5	-7.9	-8.3
14	9.0	4.8	2.1	0.1	-1.5	-2.8	-4.0	-5.1	-6.0		-7.6	-8.4										-13.7	
10	4.4	0.0	-2.8	-4.9	-6.6	-8.0																-19.6	
6	-0.1	-4.7	-7.7																			-25.4	
2 -2	-4.6 -9.1																					-31.2 -37.1	
																						-42.9	
-10																						-48.7	
																						-54.5	
																						-60.4	
																						-66.2	
																						-72.0 -77.9	
																						-83.7	
																						-89.5	
																						-95.4	
																						-101.2	
-50				-80.3	-83.4	-86.0	-88.3	-90.3	-92.1	-93.8	-95.3	-96.7	-98.0	-99.2	-100.4	-101.5	-102.5	-103.5	-104.4	-105.3	-106.2	-107.0	-10/.8

# Problem #4 60 Points

## 4. Deborah

## Program Name: Deborah.java Input File: deborah.dat

Test Input File:			
10	gelsciivl	bdkmogmam 0 0	kjrbf qmichuw
5	pxrywzrewzx		akhkcvjapc 1 0
catvideos 1 2	jxphmpyajqhp	amxqlmceej 1 0	
scarf.mov tim.mov	ozsalttzoxw 0 0		tkcafbxm 1 1
scarf.mov 1 0		kizmhmdql 1 0	xiyoiiecdr
	zrdnq 1 1		yzpjxacopdqx 1 0
tim.mov 0 0	qpoqynlsghz	bhpariivm 0 3	
	jijphju 1 0	wmocvtraxit	ddpvc 0 0
hamlet.txt 1 0		zsleeub	
	xeayw 0 1	euprkquqsae	ezfzjaky 0 0
english 0 1	knwmqho	orcrelupr 1 1	
hamlet.txt	qpoqynlsghz 1 0	kizmhmdql	bcjbbotw 1 0
5		emegyyjkok 1 0	
d 1 1	nzicpafkp 1 0		ujsjhqyjaz 0 0
е		rfdzrvdqjgi 0 2	
b 1 1	jxphmpyajqhp 1 0	emegyyjkok	shmznww 1 0
С		amxqlmceej	
c 0 1	wntrbtp 1 1	sdqnxoq 1 0	qmichuw 0 0
d	zrdnq	-	_
a 0 1	rzijdwj 1 0	bujpahorvg 0 0	uctuwayci 0 0
b	3 3	31	-
e 0 0	19	kjrbf 1 0	yhjdkonmej 0 1
	uvgyagghe 1 1	3	adhspt
7	hjbyl	acrmjrx 1 2	xiyoiiecdr 1 0
ifnyqbvsxet 1 1	xytyah 1 1	uctuwayci	_
obprx	hgpeojljuzol	xqenyrihmxcv	euprkquqsae 1 2
dnzrexu 1 0	sdrbxqlelpqf 1 0	raszzs 0 1	tkcafbxm
	1 1	bgvhzvwlk	rfdzrvdąjąi
obprx 1 0	rbeqotyfa 0 0	uifzo 0 1	srcrcdp 0 0
-	1 1	shmznww	1
nxwjyxlweefe 0 2	hyvyvahsitfl 0 1	nevymrs 0 0	qucldvh 1 0
ppelkszy dnzrexu	ukyqvhe	-	-
ppelkszy 0 0	lfbberdb 0 1	adhspt 1 0	yiewmuihh 0 4
11 - 2 - 2	ozkxrutmcf		nevymrs
wqumhuv 1 0	gxvmaggfgwdb 0 0	wvmrsxmthaup 1 3	lzmmsjwepth
1	3 - 23 3	xdmomidpvbfv	sdqnxoq raszzs
nvjwxloxsmfi 1 2	lehvbbqhn 1 2	yiewmuihh qucldvh	40
ifnyqbvsxet	qtwwcprne mwpdjt	mjtpa 0 4	mvfozxnxqq 0 0
wqumhuv	cbftqgielb 0 0	akhkcvjapc	15
19	13	kmzcnokw ezfzjaky	cvtfiz 0 1
pxrywzrewzx 1 0	ikmwhqekq 1 0	srcrcdp	naejbzty
F7		qeteszzexczm 0 1	fuekqqqfkt 1 1
sfvohb 0 1	mwpdjt 1 1	pabeyftyyij	twnavnwd
dgaunfwlb	hyvyvahsitfl	xgenyrihmxcv 0 0	pbfktrycco 1 1
dgaunfwlb 1 0	hjbyl 0 1	1 2	hpcwndrifmd
	iruqvnr	xdmomidpvbfv 1 3	kezjpog 1 0
ivowivcg 0 4	piavhzqfflmf 1 0	bcjbbotw	- 51 - 1
uvhpxkuls jijphju	1 1	bujpahorvg uifzo	ggvrnghan 1 0
nzicpafkp	iruqvnr 0 1	jqtvjvwrzy 1 0	99
ozsalttzoxw	epvouxlc	21, 2 1	yghatcecyaed 1 0
ctfohua 0 0	ozkxrutmcf 0 2	pabeyftyyij 1 0	231
	xytyah cbftqgielb	1 2 - 22 - 3	hycwhzlxac 1 0
oakpaggbg 1 3	ukyqvhe 1 0	lzmmsjwepth 1 2	
sfvohb ctfohua		jqtvjvwrzy acrmjrx	erdcz 0 1
ivowivcq	hgpeojljuzol 0 2	bgvhzvwlk 1 1	hycwhzlxac
knwmqho 1 1	ikmwhqekq	ujsjhqyjaz	ictcommbbna 1 0
oakpaqqbq	rbeqotyfa	wmocvtraxit 1 3	
cukdhtwbpbsi 1 0	gtwwcprne 0 1	wwmrsxmthaup	vwneegor 0 1
	qxvmaqqfqwdb	yzpjxacopdqx ddpvc	igdjw
gelsciivl 0 1	epvoux1c 0 0	kmzcnokw 1 0	rjzmpx 1 0
cukdhtwbpbsi	-1	<del></del>	) =r. = V
uvhpxkuls 0 3	43	zsleeub 0 2	zyjpikm 1 1
	-		7 0 E = + +

## UIL - Computer Science Programming Judge Packet - Region 2019

ggvrnqhan	24	rcvkvc tndymd	zjyqmegjjj 0 1
rziaimmgrqf 0 0	jgeuchmilpbn 0 0	ywazedu	aegclrh
		ztpvon 0 0	srjofnpuna 0 1
ykmprmsmqmj 1 3	nxjfonqpu 0 0		isypzthyxb
erdcz ictcommbbna		qcmjpxfkj 0 2	jqbdsxiagjj 1 1
nynumjz	tdmbrto 1 0	ildffvu exirdh	zhuiebvi
gzxrxlvunmsk 0 0		jhrvwxo 0 0	fqgwfdasf 0 1
	ypbfjq 0 3		xlddsyrjprg
nynumjz 0 2	oqmnum	ildffvu 0 1	hquutpg 1 1
ravzl qyeqgvr	rjodazqnylwv	xkmtsnmx	srjofnpuna
zfjdigbtbrmq 0 3	puddqdb	poasdwl 0 0	lrxidubi 1 1
eeqwtlcp	mfhtkx 0 1		npkfsseur
fuekqgqfkt	afntiovb	gaigljvxek 0 0	hwlqmript 1 1
vwneeqor	pidwyrtlwy 1 1		lrxidubi
eeqwtlcp 0 0	xrvnvwddnw	irmqx 1 0	qmfupeg 0 1
	afntiovb 0 0		bqqoybascd
ucpajdyaxy 1 2		dpldlssmkjf 1 0	qleeuxjnrph 0 1
gzxrxlvunmsk	clowvwhkjwyd 1 1		llrdjkxrxlcj
pbfktrycco	dravehd	zavfwaztzp 0 1	ybueeq 0 1
erlsza 0 0	kkmkezlcpco 0 0	poasdwl	wqjvvs
		tndymd 1 0	kwrlpm 1 1
sbmsba 1 1	xrvnvwddnw 0 2		axjsag
wqubdcpsenc	veayndoanzws	xkmtsnmx 0 1	axjsag 0 1
igdjw 1 0	mtcezapmrpp	gaigljvxek	vjnovgwqeg
	ijmubchsbt 1 0	exirdh 1 1	pguzubtqynwr 0 1
qujrzeqk 0 0		irmqx	djzbuv
1 3 1	pkzbw 1 1	hjwdtcrsyvnf 0 1	evgxlxvommpj 1 1
guenin 0 2	ijmubchsbt	jhrvwxo	fbijjnwix
rjzmpx cvtfiz	uvtfnjaa 0 0	49	xfwedh 0 1
ravzl 0 3	3	asstdhsr 0 1	aaadhibfic
yghatcecyaed	puddqdb 1 3	hwlqmript	osrlseog 1 1
kezjpoq jzrgia	fffqxv	ftzbxxplex 0 1	qmfupeg
twnavnwd 1 0	jgeuchmilpbn pkzbw	pguzubtqynwr	rzmjvnirmd 1 1
	pmcmzmidtt 1 0	zjunowyhfx 0 1	bkoesigfg
gyeggvr 1 1	1	mznyhfntv	zssrjlpfnr 1 1
jnhrmepzc	qzvhkrame 1 0	aaadhibfic 0 1	zjyqmegjjj
jnhrmepzc 0 2	1	fqgwfdasf	tvopwjn 1 1
sudyxlulhsbu	kooorcoec 1 2	llrdjkxrxlcj 0 1	xazcnmzs
rziaimmgrqf	mfhtkx pmcmzmidtt	rskaiji	npkfsseur 0 1
jzrgia 1 1	rjodazgnylwv 0 0	rskaiji 1 1	gkeckd
mvfozxnxqq	-2	asstdhsr	opueih 0 1
ypkuvmm 0 0	mtcezapmrpp 1 0	aegclrh 0 1	wtmoyzydi
J.P.1.a.v.m 0 0	mooolapmipp i o	osrlseoq	gkeckd 0 1
yhalbau 1 0	dravehd 1 1	bggoybascd 1 1	rzmjvnirmd
1	qzvhkrame	vusqfpvvxfn	fbijjnwix 1 1
wqubdcpsenc 1 3	fffqxv 1 2	dkajyjsqdrce 0 1	tvopwin
ambqo qujrzeqk	xiqvdksfxlqc	hquutpg	csykxlmgxbx 1 1
vpkuvmm	uvtfnjaa	djzbuv 1 1	jabdsxiagjj
naejbzty 0 0	xiqvdksfxlqc 1 0	zjunowyhfx	czhofqb 0 1
naejaze, e e	mid.ameimide i e	wtmoyzydi 0 1	lucfhet
mwnsvmvxexw 0 3	veayndoanzws 0 0	xfwedh	ajdnopljicf 0 1
yhalbau quenin		xazcnmzs 0 1	essabpzoh
zyjpikm	ogmnum 0 1	czhofqb	isypzthyxb 1 1
bhsjqcvjvd 0 3	tdmbrto	lucfhet 0 1	gleeuxjnrph
mwnsvmvxexw	18	zssrjlpfnr	mznyhfntv 1 1
ucpajdyaxy	ywazedu 0 2	bkoesigfg 1 1	opueih
zfjdigbtbrmq	zavfwaztzp	csykxlmgxbx	vjnovgwqeg 0 1
etnwuys 0 1	hjwdtcrsyvnf	edlslrhvlrt 0 0	ajdnopljicf
erlsza	ntqapxtyzf 1 1		zhuiebvi 1 1
ambqo 1 0	ztpvon	essabpzoh 0 1	ftzbxxplex
	rcvkvc 0 0	ybueeq	wgjvvs 1 1
sudyxlulhsbu 0 0	101KVC 0 0	vusgfpvvxfn 0 1	evgxlxvommpj
Jaayniainoba o o	cktutihvj 0 0	edlslrhvlrt	o v gara v Onunp J
hpcwndrifmd 0 0	CACUCITIV) 0 0	xlddsyrjprg 0 1	
TIPOWITALLING O O	ielgklkphcc 0 3	kwrlpm	
	TOTAVILLE 0 2	12.M.T.T.DIII	
Deborah - Test Output To S	Screen:		
hamlet.txt (1)	ikmwhaeka (4)	irmax (	2)

irmqx (2) bqqoybascd (46)

ikmwhqekq (4) acrmjrx (5) ggvrnqhan (3) ijmubchsbt (3)

hamlet.txt (1) d (3)

obprx (2) cukdhtwbpbsi (6)

## Problem #5 60 Points

## 5. Gregory

Program Name: Gregory.java Input File: gregory.dat

```
Test Input File:
```

```
EARIOTNSLCUDPMHGBFYWKVXZJQ
`~!@#$%^&*()- =+[{]}\|;:'"<.>/?
123456, password, 123456789, 12345678, 12345, 111111, 1234567, sunshine, gwerty, ilove
you
princess, admin, welcome, 666666, abc123, football, 123123, monkey, 654321, !@#$%^&*
charlie, aa123456, donald, password1, qwerty123, zxcvbnm, 121212, bailey, freedom, sha
passw0rd, baseball, buster, daniel, hannah, thomas, summer, george, harley, 222222
jessica, ginger, letmein, abcdef, solo, jordan, 55555, tigger, joshua, pepper
sophie, 1234, robert, matthew, 12341234, andrew, lakers, andrea, 1qaz2wsx, starwars
ferrari, cheese, computer, corvette, mercedes, blahblah, maverick, hello, nicole, hunt
1989, amanda, 1990, jennifer, banana, chelsea, ranger, 1991, trustno1, merlin
cookie, ashley, bandit, killer, aaaaaa, 1q2w3e, zaq1zaq1, test, hockey, dallas
whatever, admin123, asdf-123, liverpool, querty, william, soccer, london, 1992, biteme
password
Owertv123
pass1234
fgh123$
0circleS
UiL+2019
u20-IL 19
Sssssss0
N000000s
Pass12345!
Abcdefg0
jfm2amj0^jas1ond9
UIL+2019
B000000s
RS01st23
aBCDEFG0
it'sHard4me2
biteme.19?
biteme
DoU@LOveMe?
123456
123456.7x
192837.4x
adsf-123
(uil2019)
!abc/123
PASSWORD
8a>Z&B<Q3#
UrS0 {VrY*WrOnG}
```

#### (continued next page)

#### UIL - Computer Science Programming Judge Packet - Region 2019

#### **Gregory - Test Output To Screen:**

password:0:UNACCEPTABLE
Qwerty123:0:UNACCEPTABLE
pass1234:0:UNACCEPTABLE

fgh123\$:0:UNACCEPTABLE

OcircleS:13:WEAK

TiGGer:0:UNACCEPTABLE

UiL+2019:27:FAIR

UiL+20[19]:43:GOOD

u20-IL 19:34:GOOD

Ssssss0:8:WEAK

N000000s:13:WEAK

Pass12345!:16:FAIR

Abcdefg0:-4:UNACCEPTABLE

jfm2amj0^jas1ond9:63:STRONG

UIL+2019:18:FAIR

B000000s:14:WEAK

RS01st23:18:FAIR

aBCDEFG0:-4:UNACCEPTABLE

it'sHard4me2:52:STRONG

biteme.19?:28:FAIR

biteme:0:UNACCEPTABLE

DoU@L0veMe?:47:STRONG

123456:0:UNACCEPTABLE

123456.7x:7:WEAK

192837.4x:27:FAIR

adsf-123:0:UNACCEPTABLE

(uil2019):25:FAIR

!abc/123:12:WEAK

PASSWORD: 0: UNACCEPTABLE

8a>Z&B<Q3#:50:STRONG

Urs0{VrY\*WrOnG}:73:STRONG

# Problem #6 60 Points

## 6. Jordan

Program Name: Jordan.java Input File: jordan.dat

### **Test Input File:**

6
4 A 3B
4 A FF
1 3 12B3
3 B B94G3
F 1B 3D3D8307B214008
F 1B 531G9BGB4D92EC1

### **Test Output To Screen:**

6 F7 17G C61 12GF 26 337DA0089DA6AG8 531G9BGB4D92EC1 81

## Problem #7 60 Points

## 7. Kavya

Program Name: Kavya.java Input File: kavya.dat

**Note:** Next to last data set occupies three lines, beginning with "aaa", ending "FF", likewise with output, beginning "AAA", ending "RNH"

#### **Test Input File:**

#### **Test Output To Screen:**

EEEEIIIAAALLLYYSSNNTTOOWFMDRG
000000TTTTTTEEEEEEIIIIINNNNNSSSSSRRRMMMCCCHHYYUUPPWDKGBA
SSSSSAAAAATTTTOOOOEEEEHHIIRRBBMMWNDFPL
EEEEEEEEE0000000TTTTTTRRRRFFFFFNNNNHHHUUUIVDAYS

## Problem #8 60 Points

### 8. Lucie

Program Name: Lucie.java Input File: lucie.dat

#### **Test Input File:**

#### **Test Output To Screen:**

60,55,0,115
55,45,50,150
60,0,55,115
60,60,60,180
235,160,165
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
50,60,0,55,50,215
60,0,50,45,60,215
55,50,60,60,0,225
165,110,110,160,110
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
60,50,115
60,50,110
120,105

40,60,15,5,55,5,15,10,5,45,15,10,280
30,5,45,15,35,55,45,15,60,45,25,30,405
60,45,5,25,5,35,45,20,40,10,10,60,360
20,10,0,50,5,60,25,40,35,50,55,40,390
20,40,60,40,30,10,35,20,35,5,40,25,360
55,15,25,20,60,10,30,10,40,10,50,10,335
15,25,25,15,5,60,50,10,0,60,35,25,325
10,50,20,55,45,5,35,30,60,50,30,10,400
15,60,25,50,20,55,55,60,50,10,55,45,450
265,310,220,275,260,245,335,215,325,285,315,255

 $30,20,45,50,0,60,10,20,25,45,55,5,365\\0,40,25,55,45,35,45,60,15,55,30,10,415\\30,35,15,55,30,20,15,30,15,25,15,20,305\\20,50,20,20,25,15,5,15,50,20,5,20,265\\10,10,40,55,10,50,25,5,35,35,25,60,360\\20,15,60,55,45,40,15,60,25,0,0,40,375\\5,30,0,10,45,10,45,40,55,55,0,55,350\\20,0,10,45,25,20,50,10,55,40,25,55,355\\15,0,30,60,5,25,15,60,10,60,35,40,355\\30,45,10,0,50,50,5,60,25,25,10,15,325\\15,35,55,10,0,60,30,0,40,10,50,20,325\\60,0,50,55,55,30,50,0,15,35,45,0,345\\10,5,50,45,10,35,25,15,50,25,55,55,380$ 

60,20,60,60,30,20,60,55,35,35,55,55,545

## Problem #9 60 Points

## 9. Mateusz

## Program Name: Mateusz.java Input File: mateusz.dat

## **Test Input File:** 2 0 0 3 3 2 2 3 3 0 0 1 1 0 0 1000000 1000000 100 100 1 1 0 0 1 1 10 10 1 1 -10 -10 1 1 -19 -1 20 20 -10 -1 20 20 -1 -1 20 20 -19 -10 20 20 -10 -10 20 20 0 -10 20 20 -19 -19 20 20 -10 -19 20 20 -1 -19 20 20

```
10 10 3 3
12 12 3 3
20 20 3 3
22 22 3 3
0 0 10 5
5 -2 2 6
6 3 7 4
0 0 10 5
5 -2 2 6
6 3 7 4
-4 -6 32 51
-16 -16 32 32
-32 -32 64 64
-64 -64 128 128
-128 -128 256 256
-256 -256 512 512
-512 -512 1024 1024
-1024 -1024 2048 2048
-2048 -2048 4096 4096
-4096 -4096 8192 8192
-8192 -8192 16384 16384
-16384 -16384 32768 32768
-32768 -32768 65536 65536
```

#### **Test Output To Screen:**

0 0 3 3

2 2 3 3

```
Case #1: The total area is 17.
Case #2: The total area is 1.
Case #3: The total area is 1000000000000.
Case #4: The total area is 3.
Case #5: The total area is 1464.
Case #6: The total area is 51.
Case #7: The total area is 74.
Case #8: The total area is 1632.
Case #9: The total area is 4294967296.
```

## Problem #10 60 Points

## 10. Nishi

Program Name: Nishi.java Input File: nishi.dat

### **Test Input File:**

13
3.566 X 1.5
30.0 X 8.973
140 / 19.2654
1500.0600 X 35000.00005
6874 X 5
-0.00093 / 0.000058
3.0 / 0.0002857
3.00 / 0.0002857
256.123 X 18.78921
6.0 X -7.0
20.0 X 5000.0
30.0 X 8.987
-0.00093 / 0.000056

### **Test Output To Screen:**

5.3E0 2.69E2

7.3E0

5.2502100E7

3E4

-1.6E1

1.1E4

1.05E4

4.81235E3

-4.2E1

1.00E5

2.70E2

-1.7E1

## Problem #11 60 Points

## **11. Rosa**

## Program Name: Rosa.java Input File: rosa.dat

### **Test Input File:**

One FILE 1 One, two, three 4,bob,can 7, house, short 8, goof, short 3, three, good EOF FILE 2 One, two, three 4, bob, can 7, course, crank 9, hobbit, googball EOF Н2 FILE A H1, H2, H3 Airhead, A, Can Dog, D, Here UIL, U, Bob

FILE B
H1,H2,H3
Dog,D,Here
Airhead,A,Hook
UIL,U,Canister
Wha,W,Waycar
Habbit,H,Honolulu
EOF
C
FILE C
A,B,C

A,B,C 1,B,D 1,H,S 1,G,T 1,T,G EOF FILE D A,B,C 1,B,D 1,C,S 1,H,G EOF

#### **Test Output To Screen:**

EOF

FILE 1 Missing from FILE 2 3, three, good 8, goof, short FILE 2 Missing from FILE 1 9, hobbit, googball Difference between Files 7, house, short 7, course, crank FILE A Missing from FILE B FILE B Missing from FILE A Habbit, H, Honolulu Wha, W, Waycar Difference between Files Airhead, A, Can Airhead, A, Hook UIL, U, Bob UIL, U, Canister FILE C Missing from FILE D 1,G,T FILE D Missing from FILE C Difference between Files 1, T, G 1,H,G 1, H, S 1,C,S

## Problem #12 60 Points

### **12. Vova**

Program Name: Vova.java Input File: vova.dat

#### **Test Input File:**

```
50
1 2 7 6 12
2 0 -2 0 3
-1 -1 1 1 4
51978234 40205786 95533502 68243376 1603537547910438
52140431 85725575 -10170934 -50008289 6189119275683636
71086346 -41425311 34658995 74097166 227744939
-49275884 \ -88963268 \ 77880635 \ -80729884 \ 6057747190265319
-58600972 -55410500 28041861 59661887 399028481
73623111 12415157 16404125 -57173020 68148831
-15338625 34063894 69414277 -95733418 7596701139035506
19585322 -36916990 -23084412 1253939 117987338
5086908 -3367753 -17184364 40452020 116421709
73692731 47556288 -93614793 -3244901 96578456
28938251 84311427 -15149916 59081579 1228307488225109
-41044031 -38316646 60770658 -31328954 215147586
-86935610 38084497 84801184 79374367 275419846
32471799 -47701118 753579 -98066001 8092983533389099
3747367 -993323 -75466214 70037411 97955800
78150298 -90454607 36094801 40138061 4095563789832664
-21782053 -28712361 -66316625 46963893 5488923914409041
41201081 71647618 66172591 65520526 9823317631260696
62767395 -7691210 -55631771 -18302047 5749292921500183
-93392278 -3137576 -35742132 -4191263 4213261588542034
83963304 45834224 -21917049 -4911458 2636491074944131
-51777701 -90341847 -11602228 28436963 2410327399523159
78742422 90807347 3498651 -64673514 4756140468277483
68670110 -51283312 -52000320 -94356410 9266234009517956
-33108296 -80270126 63989021 -23388205 251829488
15438573 -44786597 12611682 99004187 206322975
-29396797 50669628 95559109 -65051102 6364924254103557
94774875 -4513 28589646 9458722 436544
71771732 77103052 -27075788 -36387197 160866915
-11556894 -22488367 -57407671 -78057584 40112617
23054445 -24786578 79240434 73028126 5214438478426726
11105817 77326697 5363121 32999764 3310802457445589
-85540936 4198768 -36834378 -24852020 2273046695357846
-45997879 95278282 38278516 86470676 117085798
-14093267 -63026199 -47014003 79275190 7770233975757991
23910250 -56954977 -1141033 86806652 162374098369342
-43295643 -34917977 -78450927 -38144467 6430393376278084
-37828997 39238021 11730881 14897733 3089912325940032
29698542 -70216611 -69521090 -48738997 22999668
68733993 -74687263 25189139 -22374357 6357418844508280
78629379 -10002261 76077283 -12455235 8411637210649033
76061901 10680641 -54114378 -51732993 4227232365021512
48274598 76831822 -47418031 -76426295 3662962522151446
33793007 46583919 7469980 -28705319 8950612672824101
99491335 -99605039 44150853 -36413706 230786627
-20995556 -9179057 34288117 -16960869 87581165
-82844647 56668989 -95816966 96779172 81791487
```

#### **Test Output To Screen:**

Output 10 bereen.						
#1: YES	Case	#18:	NO	Case	#35:	YES
#2: NO	Case	#19:	NO	Case	#36:	YES
#3: YES	Case	#20:	NO	Case	#37:	NO
#4: YES	Case	#21:	YES	Case	#38:	YES
#5: NO	Case	#22:	YES	Case	#39:	YES
#6: NO	Case	#23:	NO	Case	#40:	YES
#7: YES	Case	#24:	YES	Case	#41:	YES
#8: NO	Case	#25:	YES	Case	#42:	NO
#9: NO	Case	#26:	NO	Case	#43:	YES
#10: YES	Case	#27:	YES	Case	#44:	NO
#11: NO	Case	#28:	YES	Case	#45:	NO
#12: YES	Case	#29:	YES	Case	#46:	YES
#13: NO	Case	#30:	NO	Case	#47:	YES
#14: YES	Case	#31:	NO	Case	#48:	YES
#15: NO	Case	#32:	NO	Case	#49:	YES
#16: YES	Case	#33:	NO	Case	#50:	NO
#17: YES	Case	#34:	NO			
	#1: YES #2: NO #3: YES #4: YES #5: NO #6: NO #7: YES #8: NO #9: NO #10: YES #11: NO #12: YES #13: NO #14: YES #15: NO #16: YES #17: YES	#1: YES Case #2: NO Case #3: YES Case #4: YES Case #5: NO Case #6: NO Case #7: YES Case #8: NO Case #7: YES Case #11: NO Case #11: NO Case #12: YES Case #13: NO Case #14: YES Case	#1: YES	#1: YES	#1: YES	#1: YES