### CSE 100 Midterm 1 Answer Sheet Winter 2017 Version B

Problem 1	1 poin	ts for eac	h correct	; 0 points	for blan	k or inco	rrect	
1.1 (a)F	(b)	<u>F</u>	(c)	T	(d)	F	(e)	
1.2. (a)								
	mandarir toki:		larin:		0 pc	oints for b	r each coi blank or in .5 = 3 poil	
worf:								
(b)T	1	oints for o						
(c) 1 points	for each	correct; 0	points fo	or blank o	incorre	ct		
Aworf	B	_mandar	in	Cmanc	larin	_D0_	Er	nandarin
Problem 2		and the same of th		rrect; -1 p			correct em are co	rrect
2.1 (a)a, a	L							
(b)9 * 5 *	° p = 45p_	2 po	ints for co	orrect ans	wer; 0 p	oints for	blank or i	ncorrect
<b>2.2</b> (a)2		_(b)	3				each corr blank or i	

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	Problem 1		-1		-1.5 2.9
	1.1 (a) <u>F</u> (b)_	(c)	(d)_	F(e)	_F C
	1.2. (a)				M
	mandarii toki: saoFeng//	mandarin: (toki:			
(1	b)				
(0	2)				
A	. worf B. r	randerin c	mondarin	D	E. Mandarin
Pi	roblem 2				
2.1	1 (a) <u>a</u> , ap	e, pal			
(b)	45p			-	
2.2	(a) 2 (b	)3			

Problem 3 (c) $O(D)$
3.1 (a) (b) (c)
3.2 (a) (b) (c) (d)

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	Problem 1 $\frac{27}{29}$
	1.1 (a) <u>F</u> (b) <u>T</u> (c) <u>T</u> (d) <u>F</u>
	1.2. (a)
	mandarin: toki:  mandarin: toki:  mandarin: toki:  worf:
(1	b)
(0	
A	. Worf B. Mandarin C. murdarin D. O E. mandarin
Pı	roblem 2

2.1(a) a, ape, pal.(b)  $5 \times 9 \times P = 45p$ 

Problem 3 3.1 (a) $O(DloyN)$ (b) $O(DN)$ (c) $O(D)$	
3.1 (a) (b) (c) (c)	
3.2 (a) (b) (c) (d) (d) (d)	
3.2 (a) $\frac{(n+1)(n+1)}{(n+2)(n+1)} = \frac{(n+1)(n+1)}{2} = \frac{(n+1)(n+1)}{2n}$	
3.3 h	

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Problem 1
1.1 (a) <u>F</u> (b) <u>F</u> (c) <u>T</u> (d) <u>F</u> (e) <u>F</u>
1.2. (a)
mandarin: toki:  mandarin: toki:  worf:
(b) True
(c)
A. worf B. mandarin C. mandarin D. O E. mandarin
Problem 2

2.1 (a) a, ape, pal

(b) 45p

2.2 (a) (b) 3

#### Problem 3

- 3.1 (a) O(loaN) (b) O(N) (c) O(D)

- 3.2 (a) \_\_\_\_\_ (b) \_\_\_\_ (c) \_\_\_\_ (d) \_\_\_\_

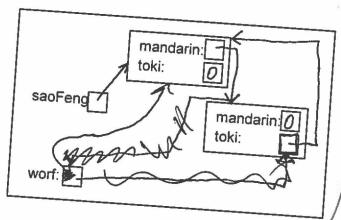
3+1=2

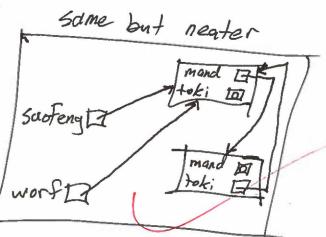
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## Problem 1

1.1 (a) F (b) T (c) T (d) 1.2. (a)





(b)\_\_\_\_

(c)

B. mandarin C. mandarin D. O E. mandarin

### Problem 2

2.1 (a)\_\_\_ (b)\_\_\_ 2.2 (a)\_\_\_\_

Problem 3 $3.1 \text{ (a)}                                   $
3.2 (a) (b)
$\frac{3.2 (a)}{1+2+3+4++(n-1)+n+(n+1)}$
$\frac{3.3}{(n+1)}$

٠	Name:PID:
	CSE 100 Midterm 1 Answer Sheet Winter 2017 Version B
	Problem 1
i	1.1 (a) False (b) False (c) True (d) False (e) False
1	.2. (a)
L	mandarin: Otoki: Omandarin: Otoki:
(b)	Time
(c)	
A	Worf B. mandain c. mandanh D. O E. mandarih

Problem 2

2.1 (a)\_

(b)\_\_\_

2.2 (a)\_

(b)\_

E. mandarih

O(h)	Problem 3 3.1 (a) $O(109(N))$ (b) $O(N)$ (c) $O(D)$ 3.2 (a) (b) (c) (d) (d) 3.3 $1+2+3+\cdots (n+1) = (n+1)(n+2) = n+2$ compansons,  1
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