ENRICHED AIR NITROX

Final Exam | A | English-Imperial

Instructions: Select the best answer from the choices below. Mark your answer on an SSI 50-Question Answer Form.

1. Which special in-water skills are required to dive with nitrox?

- A. Perfect Buoyancy
- B. None
- C. Ability to carry up to 2 cylinders
- D. Buddy breathing

2. How does planning nitrox dives differ from planning air dives?

- A. You must also manage your exposure to nitrogen
- B. You have to dive deeper
- C. You have to plan longer surface intervals
- D. You must also manage your exposure to oxygen

3. A common misconception is that, when compared to air, nitrox enables divers to dive:

- A. shallower
- B. longer
- C. shorter
- D. deeper

4. The risk of CNS Oxygen Toxicity becomes more substantial above?:

- A. A ppO₂ of 1.6 ata
- B. A ppO₂ of 1.4 ata
- C. 1000 feet of altitude
- D. A dive time of 30 minutes with air at 66 feet

5. The single most important aspect of managing your exposure to oxygen is controlling the intensity of that exposure by determining:

- A. A Maximum Operating Depth (MOD), based on a limiting ppO₂ of 1.6 ata or more.
- B. A Maximum Operating Depth (MOD), based on a limiting ppO₂ of 1.4 ata or less.
- C. The depth of the last dive
- D. A Maximum Operating Depth (MOD), based on a limiting Fraction of Oxygen (FO₂) of 32 or more.

6. Which kind of warnings should you observe and adhere to while diving with a dive computer?

- A. Ascent rates
- B. Decompression limits
- C. Oxygen/nitrogen exposure
- D. All answers are correct

7. According to the SSI CNS Clock Table you have two different CNS clock limits, one for a single dive, and one for a 24-hour period. For a ppO₂ of 1.4 ata, these limits are:

- A. 150 mins single dive / 180 mins 24 hrs
- B. 180 mins single dive/ 120 mins 24 hrs
- C. 180 mins single dive / 210 mins 24 hrs
- D. 120 mins single dive/ 180 mins 24 hrs

8. If you experience a computer failure underwater, you should:

- A. Signal your buddy and ascend with them while they monitor your ascent on their computer
- B. All answers are correct
- C. Perform a longer than normal safety stop if air supply permits as an added precaution
- D. Do not enter the water again for at least 24 hours and watch for signs of Decompression Sickness (DCS)

9. What does ppO₂ mean?

- A. Partial pressure of nitrogen
- B. Air
- C. Partial pressure of oxygen
- D. Nitrox

10. How can the ppO₂ of a breathing gas be calculated?

- A. Multiply ambient pressure by the fraction of oxygen (FO₂) found in the breathing gas.
- B. Multiply air pressure by the fraction of oxygen (FO₂) found in the breathing gas.
- C. Multiply cylinder pressure by the fraction of nitrogen (FN₂) in the cylinder
- D. Divide ambient pressure by the fraction of oxygen (FO₂) found in the breathing gas

11. Which special skills are required before you dive with nitrox?

- A. None
- B. Correct analysis of cylinder contents in the field and at the blending station
- C. Ability to carry up to 2 cylinders
- D. Buddy breathing



- 12. The best, safest and most comfortable way to track your oxygen and nitrogen exposure is:
 - A. Use an air-programmable dive computer
 - B. Use a nitrox-programmable dive computer
 - C. Use an air table or air computer
 - D. Use an air table with a oxygen clean pressure gauge

13. The potential benefits of using the same dive tables or dive computers as for diving on air are:

- A. All answers are correct
- B. You reduce your risk of DCS by basing your dive plans on the assumption your breathing mixture contains more nitrogen than it actually does.
- C. You greatly simplify the dive planning process by using the same tools as you do when diving air.
- D. You ensure a greater safety margin

14. You can be sure that the FO, content on the cylinder contents tag accurately reflects the cylinder contents if:

- A. It was analyzed by a recognized dive center
- B. You personally analyze the cylinder's FO, content, or witness the analysis
- C. The date on the content tag is not older than 1 day
- D. It was done by your buddy

15. Oxygen can be toxic to all body tissues. Its most noticeable and immediate effects take place in the:

- A. Lungs and circulation system
- B. Central nervous system and feet
- C. Bones and blood
- D. Lungs and central nervous system

16. The major benefit of diving with nitrox is that it has a lower concentration of , which limits our time at depth.

- A. Oxygen
- B. Nitrogen
- C. Air
- D. Nitrox

- **17.** The recommended limiting ppO and maximum limiting ppO, for recreational nitrox dives are:
 - B. 0.21/0.16 C. 1.4/1.6
 - D. 1.3/1.6

18. Nitrox and the acronym EANx refer to mixtures with oxygen concentrations (FO₂) higher than:

- A. 32%
- B. 36%
- C. 40%
- D. 21%

19. O, cleaned and O, service rated cylinders will maintain their rating if they are only filled with:

- A. Air
- B. Oxygen-compatible gas
- C. Any breathing gas
- D. Nitrogen

20. If scuba equipment, valves and cylinders are exposed to pure oxygen, they have to be:

- A. Nitrox rated
- B. Air rated
- C. Stored in dry places
- D. O, clean and O, service rated

21. On each dive you determine the percentage of the CNS "clock" limit that you received. When making multiple dives you have to:

- A. Subtract the percentages of each dive within a 24-hour period from each other.
- B. Multiply the percentages within a 24-hour period.
- C. Add the percentages together and avoid exceeding 100%.
- D. Divide the percentages of your previous dive day from the actual dive limits.

22. Two factors determine your total oxygen "dose." These factors are:

- A. The ppO₂ at depth AND the fraction of oxygen in your cylinder
- B. The ppO₂ at depth AND the length of the exposure
- C. The length of the exposure and the depth of your last dives
- D. The ppN₂ at depth AND the length of the exposure

23. What is the primary sign of CNS Oxygen Toxicity that can cause the loss of the second stage and drowning?

- A. Itchiness of the skin
- B. Visual impairment
- C. Convulsions
- D. Joint pain

24. You can improve your safety while diving with nitrox by:

- A. using nitrox computers set to nitrox
- B. Using the same depth and time limitations as an air table or air computer
- C. using helium computers
- D. using nitrox tables

25. The two most commonly used nitrox mixtures in recreational diving are:

- A. EAN21/EAN79
- **B. EAN50/EAN60**
- C. EAN80/EAN20
- D. EAN32/EAN36



A. 0.21/0.79

ENRICHED AIR NITROX

Final Exam | B | English-Imperial

Instructions: Select the best answer from the choices below. Mark your answer on an SSI 50-Question Answer Form.

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- B. Partial pressure of oxygen
- C. Air
- D. Nitrox

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- C. Central nervous system and feet
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A. Air

- B. Any breathing gas
- C. Nitrogen
- D. Oxygen-compatible gas

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- B. The ppO₂ at depth AND the fraction of oxygen in your cylinder
- C. The length of the exposure and the depth of your last dives
- D. The ppN₂ at depth AND the length of the exposure

14. The major benefit of diving with nitrox is that it has a lower concentration of_____, which limits our time at depth.

- A. Oxygen
- B. Nitrogen
- C. Air
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15. A common misconception is that, when compared to air, nitrox enables divers to dive:

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- C. shorter
- D. deeper

16. The recommended limiting ppO₂ and maximum limiting ppO₂ for recreational nitrox dives are:

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- B. 1.4/1.6
- C. 0.21/0.16
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- A. Multiply air pressure by the fraction of oxygen (FO₂) found in the breathing gas.
- B. Multiply ambient pressure by the fraction of oxygen (FO₂) found in the breathing gas.
- C. Multiply cylinder pressure by the fraction of nitrogen (FN_2) in the cylinder
- D. Divide ambient pressure by the fraction of oxygen (FO₂) found in the breathing gas

20. How does planning nitrox dives differ from planning air dives?

- A. You must also manage your exposure to nitrogen
- B. You have to dive deeper
- C. You have to plan longer surface intervals
- D. You must also manage your exposure to oxygen
- 21. The two most commonly used nitrox mixtures in recreational diving are:
 - A. EAN21/EAN79
 - B. EAN50/EAN60
 - C. EAN32/EAN36
 - D. EAN80/EAN20
- 22. According to the SSI CNS Clock Table you have two different CNS clock limits, one for a single dive, and one for a 24-hour period. For a ppO₂ of 1.4 ata, these limits are:
 - A. 180 mins single dive/ 120 mins 24 hrs
 - B. 150 mins single dive / 180 mins 24 hrs
 - C. 180 mins single dive / 210 mins 24 hrs
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23. Which kind of warnings should you observe and adhere to while diving with a dive computer?

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- B. Multiply the percentages within a 24-hour period.
- C. Divide the percentages of your previous dive day from the actual dive limits.
- D. Add the percentages together and avoid exceeding 100%.



COMBINED AIR/FANY DIVE TABLES



	DOPPLER NO-DECOMPRESSION LIMITS BASED ON U.S. NAVY DIVE TABLES														
	TABLENo-Decompression Limits and Repetitive Group1Designation Table For No-Decompression Dives														
	DEP	TH IN F	ET	Doppler	HOM	/TO U	SE TA	BLE I:	Find th	e plann	ed depti	h of you	r dive in	feet at t	the far
AIR EAN32 EAN36 limits left of lable 1. Kead to the right until you find the time (minutes) you PO ₂ PO ₂ PO ₂ (^{minutes)} that depth. Read down to find the Group Designation letter.										s) you pl	an to sp	end at			
	10	16 0.48	20		60	120	210	300		- F C	,				
	15 0.31	22	26 0.65		35	70	110	160	225	350					
	20 0.34	28	32 0.71		25	50	75	100	135	180	240	325			
	25 0.37	34 0.65	38 0.78	245	20	35	55	75	100	125	160	195	245		
	30 0.40	40 0.71	44 0.85	205	15	30	45	60	75	95	120	145	170	205	
	35 0.43	46 0.77	50 0.92	160	5	15	25	40	50	60	80	100	120	140	160
	40 0.47	51 0.82	57 0.98	130	5	15	25	30	40	50	70	80	100	110	130
	50 0.53	63 0.94	69 1.12	70		10	15	25	30	40	50	60	70		
	60 0.59	75 1.05	81 1.25	50		10	15	20	25	30	40	50			
	70 0.66	86 1.16	94 1.39	40		5	10	15	20	30	35	40			
	80 0.72	98 1.27	106 1.52	30		5	10	15	20	25	30				
	90 0.78	109		25		5	10	12	15	20	25				
	100 0.85	121		20		5	7	10	15	20					
	0.91	130		15			5	10	13	15					
	120 0.97			10	77	77	5	10	$\mathbf{\nabla}$	$\mathbf{\nabla}$	7	52	52	$\sum 2$	77
	130			5	∇Z	∇Z	5		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$		

D

С

Δ

B

GROUP DESIGNATION:

HOW TO US TABLE 2:

Enter with the Group Designa tion letter from Table 1. Follow the arrow dowr to the corresponding letter on Table 2.To the left of these letters are windows of time. Read to the left until you find th times between which your surface interval fal Then read down until you find your New Grou Designation let Dives following surface interval of more than I hours are not repetitive dives.

HOW TO USE TABLE 2:			_	Re	sidua	al Ni Boi	trog	en T	'ime	table	e	
Enter with the Group Designa- ion letter from	0:10 12:00*			RE		<u>r ke</u>	petit	lve	Dive	S		
Table 1. Follow the arrow down	3:21 12:00*	0:10 3:20	В		IIIIE							
sponding letter on Table 2.To	4:50 12:00*	1:40 4:49	0:10 1:39	C		a our						
he left of these etters are win-	5:49 12:00*	2:39 5:48	1:10 2:38	0:10 1:09			IT R BI					
lows of time. Read to the left Intil you find the	6:35 12:00*	3:25 6:34	1:58 3:24	0:55 1:57	0:10 0:54	E		ANNIN N				
imes between which your sur-	7:06 12:00*	3:58 7:05	2:29 3:57	1:30 2:28	0:46 1:29	0:10 0:45	F		OF TH			
ace interval falls. Then read down	7:36 12:00*	4:26 7:35	2:59 4:25	2:00 2:58	1:16 1:59	0:41 1:15	0:10 0:40	G		SURFR		
intil you find vour New Group Designation letter	8:00 12:00*	4:50 7:59	3:21 4:49	2:24 3:20	1:42 2:23	1:07 1:41	0:37 1:06	0:10 0:36	H		ENTE	
Dives following surface intervals	8:22 12:00*	5:13 8:21	3:44 5:12	2:45 3:43	2:03 2:44	1:30 2:02	1:00 1:29	0:34 0:59	0:10 0:33			
of more than 12 nours are not	8:51 12:00*	5:41 8:50	4:03 5:40	3:05 4:02	2:21 3:04	1:48 2:20	1:20 1:47	0:55 1:19	0:32 0:54	0:10 0:31		
epetitive dives.	8:59 12:00*	5:49 8:58	4:20 5:48	3:22 4:19	2:39 3:21	2:04 2:38	1:36 2:03	1:12 1:35	0:50 :	0:29 0:49	0:10 0:28	K
NEW GROUP DESIGNATION	A	В	C	D	E	F	G	H		J	K	
REPETITIVE DIVE DEPTH	R	ESIDU	JAL I	NITRO	DGEN	I TIM	ES DI	SPLA	YED	ON F	EVER	SE 🔻

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2206EAN_Nitrox Tables • 02/12 • Reorder Nº 2206EAN

CO	COMBINED AIR/EANX DIVE TABLES													
TAI	TABLE Residual Nitrogen Times (Minutes) - CONTINUED FROM REVERSE SIDE													
NEV DES	V GRC IGNATI		A	B	C	D	=	F	G	H		J	K	
REPETITIVE DIVE DEPTH IN FEET AIR EAN32 EAN36		EET EAN36 POp		=AD	USTED	NO-DEC	COMPRE	ssion t	IME LIN	AITS	N/L=NC			
10 0.27	16 0.48	20 0.58	39 N/L	88 N/L	159 N/L	279 N/L								
20 0.34	28 0.60	32 0.71	18 N/L	39 N/L	62 N/L	88 N/L	120 N/L	159 N/L	208 N/L	279 N/L	399 N/L			
30 0.40	40 0.71	44 0.85	12 193	25 180	39 166	54 151	70 135	88 117	109 96	132 73	159 46	190 15		
40 0.47	51 0.82	57 0.98	123	1/	105	37 93 29	49 81 38	61 69 47	73 57 56	87 43 66	29	116		
50 0.53	63 0.94 75	69 1.12 81	64 5	57	49	41	32 30	23	14 44	4				
0.59 70	1.05 86	1.25 94	45 4	39 9	33 15	26 20	20 26	14 31	6 37		HO		JSE	
0.66 80	1.16 98	1.39	36 4	31	25 13	20 18	14 23	9 28	3	С Г	Enter	with the	New	
0.72 90	1.27	1.52	<u>26</u> 3 22	7		12	20	2 24		Group L Table 2.1	Vesignatic Next, finc	the pla	nned	
100	121		3	7	10	14 6	18 2		feet at	aepth of the far	your rep left of Tal	ble 3.Th	e box	
110 0.91	30 1.58		3	6	10 5	13 2		that intersects the Repetitive Dive Depth and the New Group Designation will have two						
120 0.97			3 7	6 4	9 	Nit	numbers.The top number indicates the Residual Nitrogen Time.The bottom number indicates the maximum							
1.04			3			ŀ	Adjusted	No-Deco	ompressi	onTime	Limit for	the next	dive.	
1	RG		<u>RG</u>	<u>SI</u> :	<u>RG</u> ⇒	• (for next dive this	^{a day)} 2	RG	-	RG	<u>SI</u> :	<u>RG</u> =⊳ (for	next dive this day)	
-		safety							safety					

WARNING: The U.S. Navy Dive Tables were designed to Navy specifications for use by Navy Divers. When used by recreational divers, the tables should be used conservatively. Even when used correctly with proper safety procedures, decompression sickness may still occur.

RT

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Computer Dive (fill out color items)

Ascent OK: 🗌

End PSI(Bar): _____ Used: ___

SAC = psi/min. (bar/min.)

SAFETY STOP PROCEDURE: It is recommended that you make a 3- to 5-minute safety stop at 15 feet on all dives over 30 feet.

OMITTED DECOMPRESSION PROCEDURE: Should you exceed the Doppler No-Decompression Time Limits by less than 5 minutes on any dive, it is recommended that you ascend normally to 15 feet and stop for at least 10 minutes or longer if your air supply allows. Should you exceed the Doppler No-Decompression Time Limits by more than 5 minutes but less than 10 minutes on any dive, it is recommended that you stop at 15 feet for at least 20 minutes or longer if your air supply allows.

Refrain from any further scuba diving activities for at least 24 hours.

RT

TT .

вт

Computer Dive (fill out color items)
End PSI(Bar): ______ Used: _____

SAC = _____ Ascent OK:



EQUIVALENT DEPTHS IN METRES

BASED ON FRACTION OF OXYGEN



10 0.42	10 0.44	11 0.48	11 0.50	11 0.53	11 0.55	12 0.59	12 0.62	12 0.64	13 0.69	13 0.71	13 0.74	14 0.79	14 0.82	14 0.84	15 0.90	16 0.96	16 0.99	17 1.05	17 1.08
12 0.46	12 0.48	13 0.53	13 0.55	13 0.58	13 0.60	14 0.65	14 0.67	14 0.70	15 0.75	15 0.78	16 0.83	16 0.86	16 0.88	17 0.95	17 0.97	18 1.04	18 1.06	19 1.13	19 1.16
15 0.53	15 0.55	16 0.60	16 0.62	16 0.65	17 0.70	17 0.73	17 0.76	18 0.81	18 0.84	19 0.90	19 0.93	19 0.96	20 1.02	20 1.05	21 1.12	22 1.18	22 1.22	23 1.29	23 1.32
18 0.59	18 0.62	19 0.67	19 0.70	19 0.73	20 0.78	20 0.81	21 0.87	21 0.90	22 0.96	22 0.99	23 1.06	23 1.09	24 1.16	24 1.19	25 1.26	26 1.33	26 1.37	26 1.40	27 1.48
21 0.65	21 0.68	22 0.74	22 0.77	23 0.83	23 0.86	24 0.92	24 0.95	24 0.99	25 1.05	25 1.09	26 1.15	27 1.22	27 1.26	28 1.33	28 1.37	29 1.44	30 1.52	30 1.56	
24 0.71	24 0.75	25 0.81	25 0.84	26 0.90	26 0.94	27	27 1.04	28 1.10	28	29 1.21	30 1.28	30 1.32	31 1.39	31 1.44	32 1.51	33 1.59			
27 0.78	27 0.81	28 0.87	28 0.91	29 0.98	30	30	31	31	32 1.26	32 1.30	33 1.38	34 1.45	34 1.50	35 1.58			-		
30 0.84	31 0.90	31 0.94	32	32 1.05	33	33	34 1.23	35	35 1.35	36 1.43	37	37 1.55				<u>(</u>	SWA	RNIN	IG
34 0.92	34 0.97	34 1.01	35 1.08	35 1.13	36 1.20	37 1.27	37 1.32	38 1.39	39 1.47	39 1.52	40 1.60					additiona air, inclue System (ed Air Nitro al risks not ding the risl (CNS) oxyg	k (EANX) divi present who k of Central gen toxicit	ng entails en diving Nervous y, which
37 0.99	37 1.03	37 1.08	38 1.15	38 1.20	39 1.27	40 1.35	40 1.40	41 1.48	42 1.56	2 Fraction of 1.4 ATA/bar certification from a qualified instru- 6 (0xygen (F0 ₂)								nal injury ning and instructor	
40 1.05	40 40 41 42 42 43 44 45 32 Actual Depth E PO2 in excess of											planning ectly. Be ou do so,							
Consult	Consult SSI NITROX Diver Manual for detailed instructions on use of this table.																		
©Conce	pt Svste	ms Inter	national	GmbH, 2	2011							(- 2)		2506EA	N_EAN Air D	epth Slate • 0	2/12 • Reor	der Nº 2	506EAN



CNS "CLOCK" EXPOSURE TIME TABLE



Partial Pressure of Oxygen	Maximum Time in	Exposure Minutes			- /	Actua	l Bot	tom 1	lime	in Mi	inute	s —		
(PO ₂)	Single Dive Limit	24-Hour Limit	5	10	15	20	25	30	35	40	45	50	55	60
0.6	720	720	1%	1%	2%	3%	3%	4 %	<mark>5</mark> %	6%	6%	7%	8%	<mark>8</mark> %
0.7	570	570	1%	2%	<mark>3</mark> %	4%	4 [%]	5 [%]	6%	7%	8%	9%	10%	11%
0.8	450	450	1%	<mark>2</mark> %	<mark>3</mark> %	4%	6%	7%	8%	9 %	10%	11%	12%	1 3 %
0.9	360	360	1%	<mark>3</mark> %	4 [%]	6%	7%	<mark>8</mark> %	10%	11%	1 <mark>3</mark> %	14%	15%	17%
1.0	300	300	<mark>2</mark> %	<mark>3</mark> %	5 %	7%	8%	10%	12%	1 3 %	1 <u>5</u> %	17%	18%	<mark>20</mark> %
1.1	240	270	2%	4 %	6%	^{8%} 7 [%]	10 [%] 9 [%]	13 [%]	15 [%] 13 [%]	17 [%] 15 [%]	19% 17 [%]	21% 19 [%]	23 [%] 20 [%]	25 [%]
1.2	210	240	<mark>2</mark> %	5 [%] 4 [%]	7% <mark>6</mark> %	10% 8%	12% 10 [%]	14% 13 [%]	17% 15 [%]	19% 17 [%]	21% 19 [%]	24 [%] 21 [%]	26 [%] 23 [%]	29 [%] 25 [%]
1.3	180	210	3 [%] 2 [%]	6 [%] 5 [%]	8 [%] 7 [%]	11 [%] 10 [%]	14 [%] 12 [%]	17% 14 [%]	19% 17 [%]	22% 19 [%]	25 [%] 21 [%]	28 [%] 24 [%]	31% 26 [%]	33* 29 [*]
1.4	150	180	<mark>3</mark> %	7% 6 [%]	10% 8 [%]	13% 11 [%]	17% 14 [%]	20% 17 [%]	23% 19 [%]	27% 22 [%]	30% 25 [%]	33 [%] 28 [*]	37% 31 [%]	40%
1.5	120	180	4 [%] 3 [%]	8 [%] 6 [%]	13% 8 [%]	17% 11 [%]	21% 14 [%]	25% 17 [%]	29% 19 [%]	33 [%] 22 [%]	38 [%] 25 [%]	42 [%] 28 [%]	46 [%] 31 [%]	50 [%]
1.6	45	150	11 [%] 3 [%]	22 [%] 7 [%]	33 [%] 10 [%]	44 [%] 13 [%]	56 [%] 17 [%]	67% 20 [%]	78 [%] 23 [%]	89 [%] 27 [%]	100 [%]	111 [*] 33 [*]	122 [%] 37 [%]	133 [%] 40 [%]
See reverse	See reverse side for important warnings • Consult SSI NITROX DIVER MANUAL for detailed instructions on use of this table													

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2506EAN_EAN Air Depth Slate + 02/12 • Reorder № 2506EAN (FEET) - or - 2506M-EAN (METRES)

Maximum	Operating D	epth Table
EAN Mix (% oxygen)	MOD if ppO2 = 1.40 (in meters)	MOD if ppO2 = 1.60 (in meters)
25	46	54
26	44	52
27	42	49
28	40	47
29	38	45
30	37	43
31	35	42
32	34	40
33	32	38
34	31	37
35	30	36
36	29	34
37	28	33
38	27	32
39	26	31
40	25	30