

CS50 presents

CS50x Puzzle Day 2018

with special thanks to our friends at Facebook

March 9 – 12, 2018

- This packet contains 8 puzzles, all 8 of which are independent of one another.
- The answer to each puzzle is a single word or name in English, unless otherwise specified.
- You may use the Internet and any other resources at your disposal.
- You are encouraged (but not required) to work on a team with 1, 2, or 3 classmates or friends, either in person or online.
- Have fun and good luck!

#1: Logic Gate

Four college students, one from each year, are working on their programming assignments in the computer lab at four adjacent computer terminals. Can you figure out everyone's information?

	Name	Year				Terminal			
		Freshman	Sophomore	Junior	Senior	#8	#9	#10	#11
Terminal	Alice	C	M	A	A	R	U	L	I
	Bob	L	P	R	C	C	H	H	T
	Charlie	A	I	I	U	T	T	I	N
	Diane	E	T	U	A	M	B	S	C
	#8	O	E	T	K				
	#9	R	U	I	A				
	#10	N	I	R	R				
	#11	E	D	G	C				

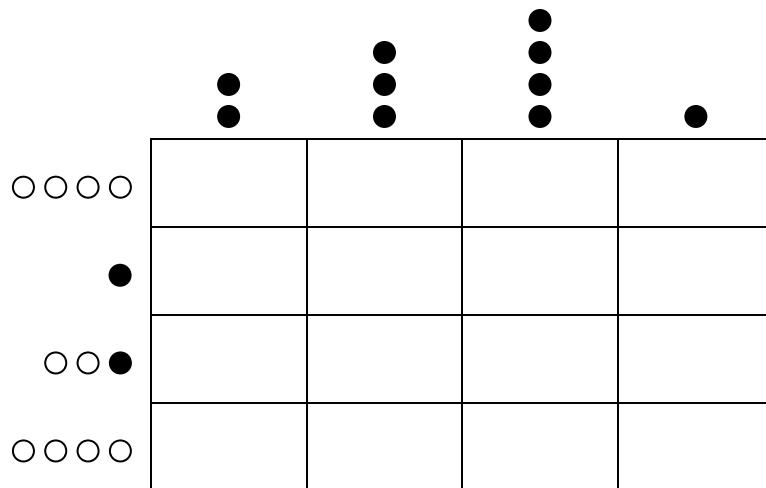
Student	Year	Terminal

- The student sitting at Terminal #8 has been in college longer than Charlie.
- Diane is a Freshman.
- Charlie is sitting at Terminal #9.
- Alice is one year behind the student sitting at Terminal #10.

Answer: _____

#2: Mastermind

The answer is 0120.



Ignore the second grid until you have solved the first one.

AVM	OYI	RVD	EDA
MEF	ECS	GAP	DIB
KSL	AOP	FBS	ATE
EUN	ACN	MOS	IET

Answer: _____

#3: Word Ladder+

You can progress from one word to the next changing only one letter at a time.

- Flex slightly
- Musical group
- Beach find
- Spoken
- Wind catcher
- Loam
- Heat in water
- Timber, to Jacques
- A Jewish ceremony
- Military prison
- Boast
- A spoiled one
- Rhythm
- Carry or hold
- Alcoholic beverage
- Soothsayer
- Burn or scorch
- Render impervious
- Not fictional
- 500 sheets
- Have wanderlust
- Enclosure
- Sonic effect
- Sturdy footwear
- Pirate's quest
- Disoriented
- Terminal
- Ensemble

Answer:

#4: Nonthreatening

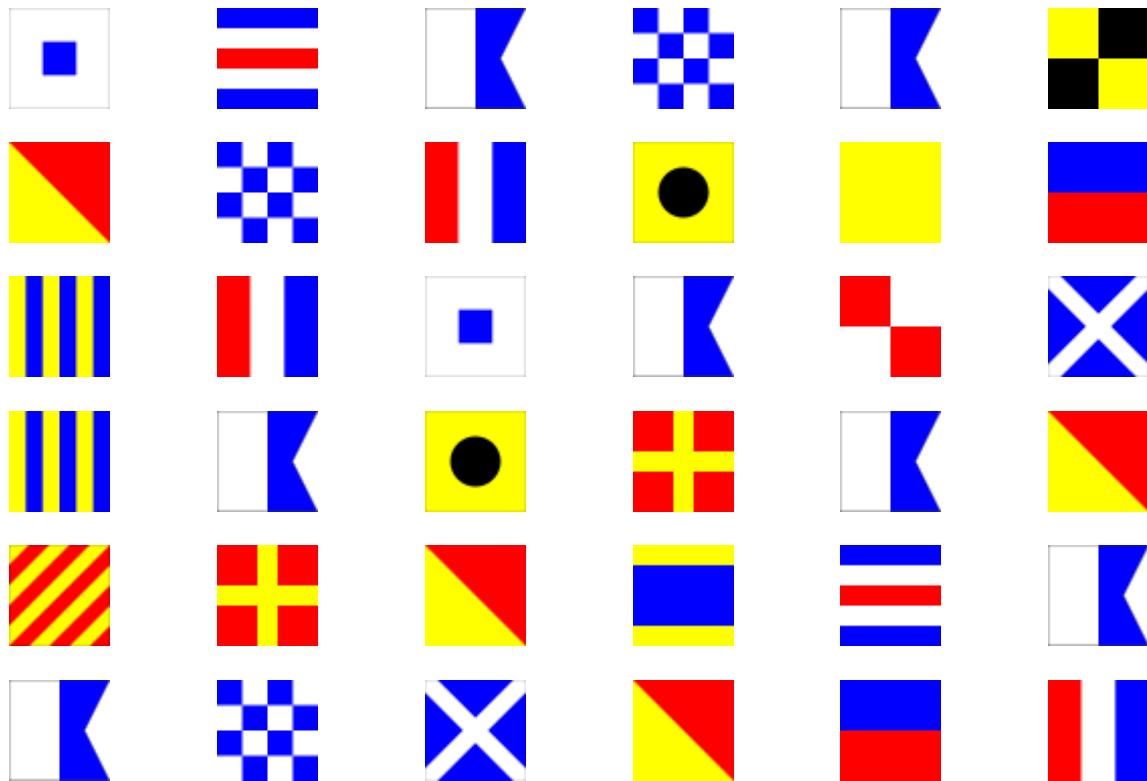
Can you find a way to safely place all the pieces?

F	J	I	M	T	S	W	E
E	♚	T	R	X	M	G	L
V	J	H	♛	N	K	F	E
♚	L	D	C	S	C	U	♚
O	I	♚	M	B	X	Y	♚
J	S	♚	M	R	♚	T	M
♚	D	F	V	G	H	I	K
C	W	K	M	E	R	S	L



Answer:

#5: Hydrocross



*Aqua
Canal
Dam*

*Drain
Moat
Moist*

*Soggy
Tarn
Tide*

Answer (hint - ends with a consonant): _____

#6: Rolling the Dice



Answer (2 words): _____

#7: Medal Table

Amsterdam	Athletics: Men's 5000 meters	
Antwerp	Boxing: Men's lightweight	
Athens	Fencing: Women's individual foil	
Grenoble	Cross-country Skiing: Men's 15km	
Montreal	Boxing: Men's light heavyweight	
Nagano	Alpine Skiing: Men's giant slalom	
Oslo	Speed Skating: Men's 500 meters	
Rio de Janeiro	Athletics: Women's 800 meters	
Seoul	Canoeing: Men's K1 500 meters kayak singles	
Tokyo	Fencing: Women's individual foil	
Vancouver	Cross-country Skiing: Women's sprint	

Answer: _____

#8: To Completion

Study for a test	Big U.S. dam
Enemies	Clapton band
Hell-bound person	Kidney-related
Shopper's vehicle	Not sweet
Singles	Ogling
Discomfort	Recursive programming language
Yarn	Rods' companions
Asphalt	Shift-6 (U.S.)
The sun, e.g.	Step
Levitate	Vixens
Not fake	Wall cover
Mouth part	Weaver

Answer: _____