

CS50 and Facebook present
CS50x Puzzle Day

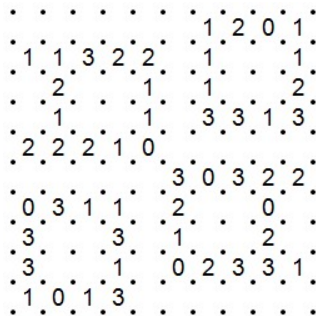
February 12 – 13, 2016

- This packet contains 12 puzzles, each of which is independent of all the others.
- The answer to each puzzle is a single word, short phrase, or proper name in English.
- **One** member of your team should input all of your answers at <http://cs50.edx.org/puzzles/submit> anytime before 23:59 (in your own time zone) on Saturday, February 13, 2016.
- 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!

Puzzle #1: 8000 Words

"It's kind of like trying to sing the words to the Macarena. You can sound out the words but you have no idea what you're singing."

- Stargate Atlantis, "Echoes"



Answer: _____

Puzzle #2: Bento Boxes

“You can’t connect the dots looking forward; you can only connect them looking backwards. So you have to trust that the dots will somehow connect in your future.”

- Steve Jobs

ス	セ	ソ
ツ		ト
ヌ	ネ	ノ

			S
		M	
	M	L	T

			M
H			
P			
		P	L

B	P	N
K	Q	F
M	R	

A	L	X
B		G
C	E	E

Answer: _____

Puzzle #3: Fill-Ins

“Five of them, three of us. Hardly seems fair. Maybe we should give them a chance to surrender.”

- *The Three Musketeers*

**COUNT
COYOTE
DALTRY
DIAMONDBACK**

**HE
HUDDLE
HULU
MONDAY**

**NETFLIX
SHE
TOWNSHEND
TUESDAY**

ROUND ONE

_____, _____, _ _ _

_____, _____, _ _ _ _ _

_____, _____, _ _ _ _ _

_____, _____, _ _ _ _ _

_____, _____, _ _ _ _ _ _ _ _ _

_____, _____, _ _ _ _ _ _ _ _ _

ROUND TWO

_____, _____, _ _ _

_____, _____, _ _ _ _ _

_____, _____, _ _ _ _ _

Answer: _ _ _ _ _

Puzzle #4: Quick Message

“Then again, maybe some of you have come to Hogwarts in possession of abilities so formidable that you feel confident enough to not pay attention.”

- *Harry Potter and the Sorcerer's Stone*

I was sitting on my computer when a friend rushed by, staring intently at something. He shoved me aside and, still looking at the figure in the distance, hurriedly typed something before running off towards it. When I looked at the screen it read:

ueuag rKJ AGIQ GIAR FEgN

What important message was my friend trying to tell me?

Answer: ____

Puzzle #5: Not Yours

“Aboard my ship, excellent performance is standard, standard performance is substandard, and substandard performance is not permitted to exist.”

- *The Caine Mutiny*

OVER 1	YOU 1	VERTICAL 2	WITHIN 2	EVEN 2	UNDER 1
THREE 1	TAKE 1	EDGES 2	THE 2	STRAIGHT 2	CENTER 1
OF 2	IN 3	AND 4	MIX 3	AND 3	ONCE 2
THEN 2	LETTERS 3	FROM 3	LEFT 1	TO 1	THE 1
WORDS 2	FOUR 4	BOX 4	CONTAINED 2	BETWEEN 1	RIGHT 1
STIR 1	ALL 2	CORNERS 2	SQUARES 1	FINISH 0	AND 0

Answer: _____

Puzzle #6: #strictly

"I got a triple word score with a double letter Q. If that's not a time to bust out the Scrabble dance, what's the point of having one?"

- *The Big Bang Theory*, "The Perspiration Implementation"

OTROT 1

SCO 2

UARE 5

CALSO 6

BALT 6

ZBA 2

PLA 4

ALT 1

IE 2

ANO 3

COG 3

CIKEN 6

BREAK 2

A ~~B~~ C D E F G H I J K L M

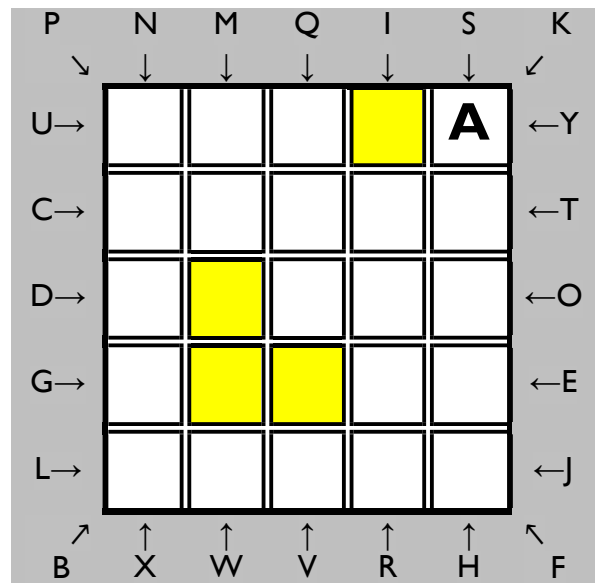
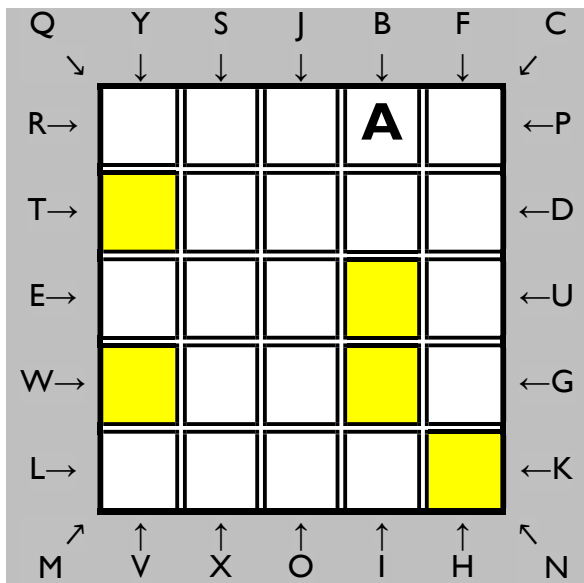
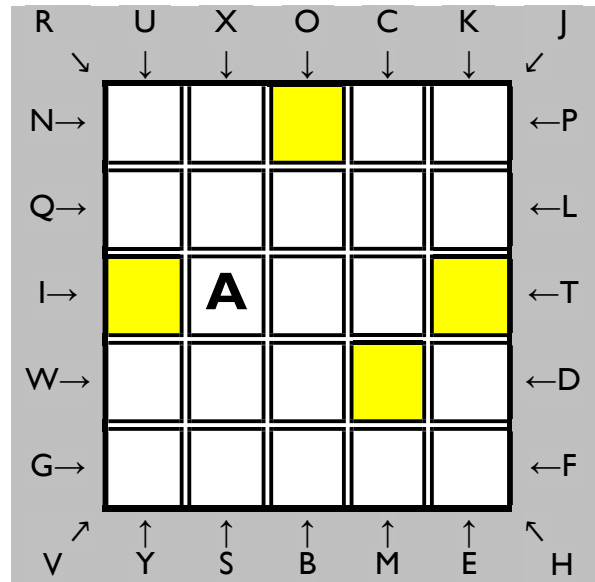
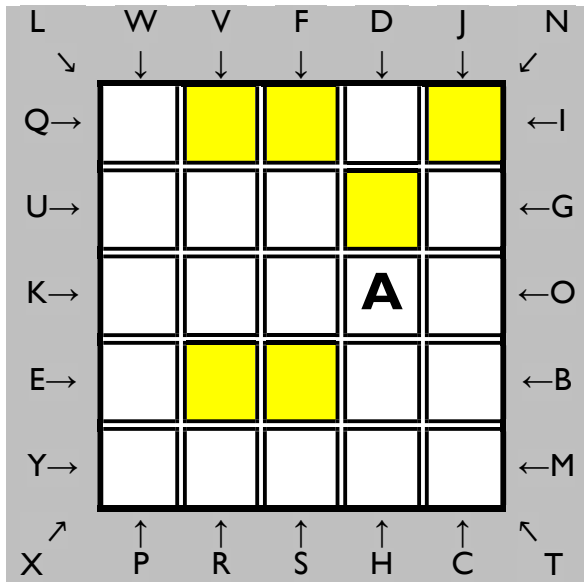
N O P Q ~~R~~ S T U V W X Y Z

Answer: _____

Puzzle #7: Pathfinder

"For the path you will take will lead you to certain destruction!"

- Labyrinth



Answer: _____
(just submit this word)

Puzzle #8: Missed Connection

“No good movie is too long, and no bad movie is short enough.”

- Roger Ebert

Movie critics Phil Mofile and Mou Vefan don't have much in common. Can you figure out what the only movie they both like is?

Film 1

Phil: This movie—what can you say other than “fantastic”? Superb acting with great cinematography. Oscar front-runner!

Mou: I didn't really care for that flick. Apart from the confusing dialogue and poor lighting, the soundtrack was awful. It's absurd to call it a candidate for picture of the week, let alone an Oscar.

Film 2

Phil: Ugh. The plot was hackneyed, the camera work was not good at all, and the climactic scene was stupid because it was obvious who the winner would be.

Mou: I loved this one from start to finish. Edge of your seat type stuff. Expect this movie to come out a winner come award season.

Film 3

Phil: The book was great, but this movie effort was ruined entirely in the execution. Who directed this? Surely not the esteemed gentleman whose name shows up in the credits.

Mou: I didn't care much for its novel form—despite that, it sure made a phenomenal film. Directed by a maestro, as we all know, and he did a simply wonderful job.

Film 4

Phil: By its finish, I was applauding out loud. Special effects were amazing, and I need more of these characters. Sequel, please!

Mou: Bored halfway through. The movie finally mercifully ended; by the time the credits rolled, it felt like it had been ten hours.

Film 5

Phil: Ben Affleck is the only bright spot. Virtuoso performance as the twenty-something struggling with depression—really showcases his range as one of the best alive.

Mou: When you write this script, you need a great actor to pull it off. Affleck falls painfully short. A Philip Seymour Hoffman or a Heath Ledger would have been an infinitely better choice.

Answer: ___ ___ ___ ___

Puzzle #9: Seasons of Change

“The tree house was supposed to bring us more independence, but what the summer actually brought was independence from each other.”

- *Now and Then*

2016

M	T	W	T	F	S	S
				1	2	3 2
4	5	6	7	8	9	10
11	12	13	14	15	16	17 4
18	19	20	21	22	23	24
25	26	27	28 3	29	30 6	31

M	T	W	T	F	S	S
1	2	3 1	4	5	6	7
8	9	10 1	11	12	13	14 5
15	16	17	18	19 3	20	21
22	23	24 5	25 7	26	27 2	28
29	30	31				

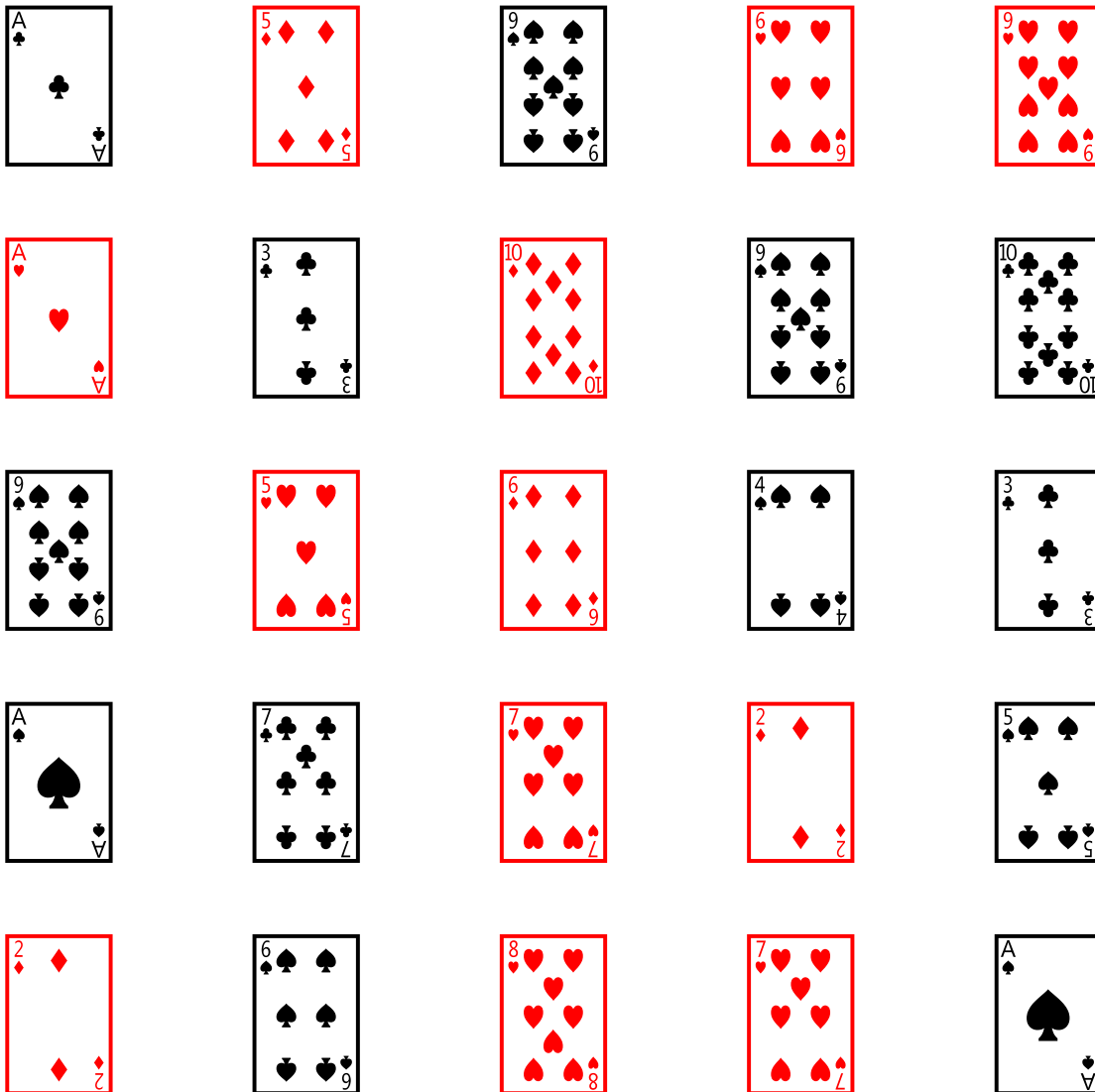
Answer: _____

Puzzle #10: Play to Win

“Now casinos have house rules. They don’t like to lose. So you never show that you’re counting cards. That is the cardinal sin, Ray.”

- Rain Man

The below represents a perfectly interlocking grid of ten words and ten five-card poker hands (diagonals do not count).



Answer: _____

Puzzle #11: Historical Memes

"Each card has its own name: The Magician, The Empress, The Fool, The Wheel of Fortune, Strength. They represent challenges and tests, twists of fate. No card is all good or all bad."

- My So-Called Life, "Other People's Mothers"

1			5		 ???
2		 	6		
3			7		
4			8		

9			14		
10			15		
11			16		
12			17		 (modern)
13					

A 17x17 grid of dashed lines. Red squares are placed at the intersections of the following row and column pairs: (1, 17), (2, 16), (3, 15), (4, 14), (5, 13), (6, 12), (7, 11), (8, 10), (9, 9), (10, 8), (11, 7), (12, 6), (13, 5), (14, 4), (15, 3), (16, 2), and (17, 1). This represents the anti-diagonal of the grid.

Answer: _____
(just submit this word)

Puzzle #12: Triple Threat

“Lina. She can’t act, she can’t sing, she can’t dance. A triple threat.”

- *Singin’ in the Rain*

A:

		1	2	3	2	1							4	1	
		4	9	3	3	5	6		1			1	1	5	6
		8	2	5	5	2	1	2	1	1	1	1	2	1	5
6 1 1 3															
3 1 1 1															
1 1 2 2 3															
2 4 4															
2 5 2 2															
2 3 3															
2 1 1															
4 1															
4 1															
2 2 2															
6 3															
4 1															
1 1															
3															
3															

B:

[illegible]

Note 1: In the left column, commas have been added to rows with “11”s to more clearly distinguish between two “1”s and a single “11”.

Note 2: The “X” in the fourth column is a placeholder for “17”.

C:

						5		1	1	1					
		3	5	5	9	2	4	2	1	1	1				
	4	6	6	6	1	1	3	1	1	1	3	3	1	5	2
4															
6															
6															
6 2															
6 1															
1 1 1															
2 2 2 2															
5 1 6															
6 3 1															
4 2 1 1															
4 1 2															
4 2 2															
2 1 5															
1 1															
4															

Note: The yellow squares will **not** be filled in when the picture is complete.

A + B + C = Answer: — — — — —