#1: Picture Round

Team		Points	

(a) _____

(b) _____

(c) _____

(d) _____

(e) _____

(f) _____

(g) _____

(h) _____

(i) _____

(j) _____

#2: Knowledge Round

Team		Points	

1. Adds the destination operand (first operand) and the source operand (second operand) and then stores the result in the destination operand.

2. Invalidates from every level of the cache hierarchy in the cache coherence domain the cache line that contains the linear address specified with the memory operand.

3. Transfers program control to a different point in the instruction stream without recording return information.

4. Counts the number of leading most significant zero bits in a source operand (second operand) returning the result into a destination (first operand)..

5. This instruction performs no operation.

6. Fetches the line of data from memory that contains the byte specified with the source operand to a location in the cache hierarchy specified by a locality hint

7. Decrements the stack pointer and then stores the source operand on the top of the stack.

8. Transfers program control to a return address located on the top of the stack.

9. Reads the current value of the processor's time-stamp counter (a 64-bit MSR) into the EDX:EAX registers.

10. Computes the bit-wise logical AND of first operand (source 1 operand) and the second operand (source 2 operand) and sets the SF, ZF, and PF status flags according to the result.

#3: From out-of-order to in-order

Order from highest (1) to lowest (4) numerical value.
all correct = 2 points. all but one correct = 1 point.

1. Electrical energy

	Bitcoin mining consumed in 2018
	Austria consumed 2018

	Three Gorges Dam produced in 2018
	Global data centres consumed in 2018

2. Time Zones

	London
	Marrakech

	Washington DC
	Santiago de Chile

3. Worldwide gross of computer animated movies

	Finding Nemo
	How to train your Dragon

	The Lion King (2019)
	Frozen

4. Most used languages (Stackoverflow Developer Survey Results 2019)

	PHP
	JavaScript

	C++
	Python

5. Most used editors (Stackoverflow Developer Survey Results 2019)

	Visual Studio Code
	Vim

	Atom
	Notepad++

#4: Nag A RAM Round

Team		Points	

Ignore all punctuation marks.

1. I didn't know that **A GRANDMA'S POWERS** greatly increase online security. (2 words)

2. To make my target audience wider, I implement my own **DEVOURS RIME** (2 words)

3. **ITCHIER TAMPON RITE** is not as complicated as it looks at first. (2 words)

4. Be careful, there are worms spreading via **PRETTY PICS**! (1 word)

5. Hardware engineers where quite surprised when they discovered **A LIMB OOZED**. (1 word)

6. I choose where everything goes with a **REPRINTS LICK**. (2 words)

7. You won't know where you put things unless you have some sort of **BEAVER PETTING DEAL**. (3 words)

8. The app suddenly stops and says something about a **FUR TEASER FEE**. (3 words)

9. Speed up things by optimizing for the **TRADITIONAL FEARFULNESS BOOK**. (3 words)

10. Woa! Does this mean we're moving beyond a **FAT SMACKER**? (2 words)

#5: Connection Round

Team		Points	

1. A German article.

2. A sea animal without fins.

3. Used to change the physical appearance of shoulders or breasts.

4. One of the two main characters of a 2008 Disney movie.

5. A three letter agency.

6. A 2001 movie starring John Travolta.

7. Explains a map's symbology.

8. Priestess of the Temple of Apollo at Delphi

9. Greek for Riddle.

10. And the connection for all answers is ...

#6: Music Round

Team		Points	

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.