Question 1 of 24
Duke alum Ge Wang skyped into the class this semester to talk about what he does and how it's related to Compsci 82. Which of the following is NOT something that he discussed in reasonable detail with the class.

- A. The iPhone apps he has helped create.
- B. The mobile phone orchestras he works with.
- C. The social aspects of the applications he has helped develop.
- D. How much of the profits his company makes are contributed to Duke.

Reset Selection

Question 2 of 24
The search query 'gelocate ip' will generate a list of sites that will help determine the geographic location of a specific IP address, e.g., one such site is www.hostip.info. In what country is the IP address 175.45.176.0 located.

- A. China
- B. North Korea
- C. Mongolia
- D. Kazakhstan

Reset Selection

Question 3 of 24
The YouTube video with this url http://www.youtube.com/watch?v=Fzy7oeL8oGE contains an identifier that is eleven 'characters' long where each character is either an upper- or lower-case letter or a digit 0-9 for a total of 62 possible 'characters' in the URL. About how many different videos could be stored on YouTube if each is eleven characters long and each character has 62 values as described?

- A. about $5 \times 10^{19}$
- B. about $3 \times 10^{64}$
- C. about a billion
- D. more than the number of IPv6 addresses

Reset Selection

Question 4 of 24
The website bitly provide a URL-shortening service. The URL http://bit.ly/tucUTT, and the URL http://bit.ly/r8POLQ are typical, for example. Each consists of six characters, where the characters are upper- or lower-case letters or the digits 0-9. How many such six-character URLs are there? (where each character is one of the 62 different values A-Z, a-z, 0-9).

- A. Fewer than a billion
- B. About 57 billion
- C. About $1.7 \times 10^{48}$
- D. More than the number of IPv6 addresses

Reset Selection
Question 5 of 24

Thomas Narten, an at-large member of the ICANN board and former area-director of the IETF spoke to our class in September. Which of the following best characterizes his talk?

- A. The characteristics of two different organizations that both have a governance role in how the Internet works and functions.
- B. The growth and possibilities of the Internet, tempered with the realities of making it work in a changing world.
- C. The globalization of the Internet and how the US-centric role of the original Internet has shifted over time.
- D. The demands on Internet infrastructure imposed by the incredible number of devices that are connected each year.

Reset Selection

Question 6 of 24

Guest speaker Kevin Fu talked about medical device- and trustworthy software. Which of the devices and systems listed below is NOT one he mentioned?

- B. Implantable cardiac defibrillators
- C. Infusion pumps
- D. hearing aids

Reset Selection

Question 7 of 24

In a Duke Chronicle article from November 22, 2011 and accessible here: http://dukechronicle.com/article/university-purchases-xxxurls
Duke's Michael Schoenfeld, vice president of public affairs and government relations, says "We have reserved a number of Duke-related names, things that involve Duke, things that involve Blue Devils". On December 12, the godaddy.com registration site shows that dukefrat.xxx is available for registering for $99.99/year.

Which one of the following is NOT true regarding the name dukefrat.xxx

- A. The domain dukefrat.xxx can be registered with godaddy.com, but with no other registrar.
- B. The use of 'duke' in the domain may be subject to trademark considerations, Duke may request that the name be transferred to Duke, or prevent a site from being deployed, using the legal system.
- C. It's possible that the .xxx domains won't succeed except for registrars like godaddy, e.g., see http://bit.ly/vjmHfY for one point of view.
- D. Duke will stop students from accessing .xxx domains as part of ensuring that students are eligible for federally subsidized e-rate internet access.

Reset Selection

Question 8 of 24

One of the readings for class was Is the Internet for Porn? An Insight into the Online Adult Industry. The authors of the paper wrote about ethical and legal considerations in their study. Which one of the following was NOT explicitly mentioned as a concern?

- A. Information collected was anonymized, presumably because of privacy concerns.
- B. The authors did not withdraw funds/money, but forfeited any income earned.
- C. Web-crawling experiments maintained a low number of outgoing requests to avoid affecting the performance of the websites crawled.
- D. The authors did not use third-party cookies in any of their research.

Reset Selection
Question 9 of 24
Which **ONE** of the following is *false* regarding patents and copyrights?

- A. Software can be protected by both patent and copyright.
- B. Open source companies like Red Hat use both copyright and patents to protect their investments, innovations, and products.
- C. The application for copyright protection costs more than the application for patent protection because copyrights last longer than patents.
- D. Richard Stallman and the Free Software Foundation rely extensively on copyright law for protection, but do not rely on patents for protection.

Reset Selection

Question 10 of 24
Jennifer Jenkins spoke to our class this semester. Which of the following best characterizes the subject of her talk?

- A. The evolution of copyright and how digitization, the Internet, and business affect creativity, the law, and technology.
- B. How work started at Duke and other law schools has transformed how copyright is viewed by academics and industry as it relates to digital creativity.
- C. The pace of the Internet and how user-generated content and its rapid growth exceed the capabilities of legislative solutions.
- D. How court cases including Google v. Perfect 10, Sony v. Universal Studios, and Universal v Reimerdes have affected the evolution of copyright law.

Reset Selection

Question 11 of 24
![Comic Strip](image)

In the comic above the acronym DRM stands for:

- A. Domain Registration Mechanism
- B. Digital Rights Management
- C. Digital Router Machine
- D. Domain Name System

Reset Selection
In the comic below the phrase "And if you try to keep it you'll be a criminal (DMCA 1201)." appears. To what does 1201 refer?

A. The safe-harbor provision of the Digital Millennium Copyright Act.
B. The anti-circumvention provision of the Digital Millennium Copyright Act.
C. The section of the US Copyright code in which the Digital Millennium Copyright Act appears.
D. The US Supreme Court case number in which the constitutionality of the Digital Millennium Copyright Act appears.

Visiting the website jezebel.com results in third-party cookies (e.g., from doubleclick and atdmt) being stored on your computer as well as cookies from jezebel.com. Roughly how many cookies are stored from jezebel.com when the site is loaded?

A. fewer than 15
B. between 15 and 30
C. between 31 and 40
D. more than 40
Question 14 of 24
Visiting the website www.tmz.com results in third-party cookies being stored on your machine (cookies not from tmz.com). Which of the following correctly characterizes the number of third party cookies stored when visiting tmz.com?

- A. Fewer than 20 third party cookies are stored.
- B. Between 21 and 40 third party cookies are stored.
- C. Between 41 and 60 third party cookies are stored.
- D. More than 60 third party cookies are stored.

Reset Selection

Question 15 of 24
The DMCA provides legal protection related to copyright. Which of the following are aspects of the DMCA that we covered in class this semester.

I. Section 512, the ISP Safe Harbor Provision
II. Section 1301, protection for Boat Hull Design
III. Section 1201, anticircumvention against DRM and other protections

- A. I only
- B. III only
- C. I and III only.
- D. II and III only
- E. I, II, and III

Reset Selection

Question 16 of 24
Using the website http://www.nirsoft.net/countryip facilitates determining the number of IP addresses allocated to a country. In answering this question note that $2^{13}$ is 8192 and $2^{14}$ is 16384 and that $2^{14} + 2^{15} = 2^{14}(2 + 2) = 2^{15}$.

How many IP addresses are allocated to Belize (since 2004).

- A. $2^{14} + 2^{15}$
- B. $2^{13} + 2^{14}$
- C. $2^{13} + 2^{15}$
- D. $2^{15} + 2^{16}$

Reset Selection

Question 17 of 24
In 2011 roughly 500 million smart phones will be sold world wide. If that rate stayed constant (500 million/year) and each phone gets a new IPv4 address, roughly how many years would it take to allocate every IPv4 address to a smart phone?

- A. 8 years
- B. 80 years
- C. 800 years
- D. 8000 years

Reset Selection
Question 18 of 24
According to the website http://www.whois.sc/internet-statistics/ which of the following best characterizes the number of .com domains currently registered?

- A. Close to 10 million
- B. Close to 100 million
- C. Close to one billion
- D. Close to 10 billion

Reset Selection

Question 19 of 24
According to http://bit.ly/uhwU7B a YouTube blog indicates that 48 hours of video are uploaded every minute (as of May 2011). If that rate is constant over a year, how much video is uploaded in a one year period?

- A. 28.8 years
- B. 288 years
- C. 2880 years
- D. 28,800 years
- E. none of the above.

Reset Selection

Question 20 of 24
If the rate at which video is uploaded to YouTube increases to 72 hours every minute and is constant for January of 2013, how much video will be uploaded in that month?

- A. About one year
- B. About 100 years
- C. About 366 years
- D. About one thousand years

Reset Selection

Question 21 of 24
Which of the following is true about cookies?

I. Cookies are a patented technology, covered by patent 5774670

II. Cookies are small text files stored on your computer

III. Cookies can make web browsing better from a users' perspective.

- A. II only
- B. III only
- C. II and III only
- D. I, II, and III

Reset Selection
Question 22 of 24
NBC anchor Brian Williams talked to the class via Skype on the last day of class. Which one of the following did he mention in his discussion?

- A. He is a NASCAR fan and has driven a race car.
- B. He played linebacker in high school.
- C. His son pitched a no-hitter in little league.
- D. He does not read books, only newspapers.

Question 23 of 24
Professor Landon Cox spoke to our class about research his group is doing with an application they have created called TaintDroid that runs on top of the Android operating system. Which of the following is most likely reason his group uses Android?

- A. It is simpler to write code for Android machines than for other mobile phones (e.g., windows or IOS/IPhones).
- B. Android is an open-source system, so modifying the code is straight-forward and legal.
- C. There are more Android phones sold than iPhones, so profits are likely to be higher.
- D. Android users are more technically oriented than iPhone users and are thus more susceptible to being hacked.

Question 24 of 24
Which one of the following is NOT true about Luis von Ahn and his work?

- A. He has been granted patents related to his work.
- B. He sold his reCaptcha company to Google.
- C. He has a plan to help people learn a new language while translating web pages.
- D. He is from Nicaragua.