

Group Discussion Questions

Name Adah G. P7

These questions are for discussion *after* the presentation. Be sure to take note of key people and events during the presentation and bring your ideas to your group.

Name at least two computing pioneers, what they accomplished, & the digital computing generation:

Pioneer: Margaret Hamilton

Contribution: directed NASA team that developed onboard flight system for Apollo

Digital Computing Generation: 3

Pioneer: Frank Green

Contribution: fastest microchip

Digital Computing Generation: 3

What surprised you in the presentation(s)?

An actress was the one who created the tech. used in Bluetooth, GPS, and WiFi.

How did the people you saw differ from your original ideas about computer scientists?

Surprisingly, a lot of them were most involved in pursuits other than computer science.

What inspired or amazed you?

It amazed me that, in NASA, there were women doing all the manual calculations behind the scenes.

How would your life change if you didn't have access to any computers at all? How would you do schoolwork, look up information, connect with friends?

library

I'd use a pen and paper.

How has computing changed society? What do we see changing in how we compute?

Computing has allowed us to make complex calculations and share and store data across the world, improving communication capabilities among other things. Now, things like AI are allowing computers to learn by trial and error themselves.

What will the next generation of computers be like? What will we use them for? What current trends can we use to make predictions?

The next generation will involve quantum computing, which is incredibly fast, and generative AI. It will allow us to make calculations very widely, and will likely result in computers gaining sentience.

What interests you in computing?

It's very logical and has an interesting history.

Group Discussion Questions

Name Anastasia Makarewicz

These questions are for discussion *after* the presentation. Be sure to take note of key people and events during the presentation and bring your ideas to your group.

Name at least two computing pioneers, what they accomplished, & the digital computing generation:

Pioneer: Charles Babbage ← (Father of computers)

Contribution: built difference engine for mathematical calculations

Digital Computing Generation: 0?

Pioneer: Grace Hopper

Contribution: Made the first high level language, which was machine independent + human readable

Digital Computing Generation: 3

What surprised you in the presentation(s)?

The history of computing can be traced back to 2000 BC

How did the people you saw differ from your original ideas about computer scientists?

There were people of different races/genders, not only men

What inspired or amazed you?

The fact that people ~~could~~ managed to develop computers, which used seem impossible just a few generations ago

How would your life change if you didn't have access to any computers at all? How would you do schoolwork, look up information, connect with friends?

It would make school more difficult, all work would be done on paper, and looking up information would be much more tedious. It would be harder to connect w/ people w/o

How has computing changed society? What do we see changing in how we compute? the internet.

Calculation-wise, computing allows for things like graphing calculators to exist, and makes large-scale computing much easier (cloud tech, servers)

What will the next generation of computers be like? What will we use them for? What current trends can we use to make predictions?

The next-generation computers will be more powerful, and potentially self-programming (w/ the development of AI). They might be sentient.

What interests you in computing?

Just the large amount of uses computing has, and what it can do for society.

Group Discussion Questions

Name Davi Regis Knippschild

These questions are for discussion *after* the presentation. Be sure to take note of key people and events during the presentation and bring your ideas to your group.

Name at least two computing pioneers, what they accomplished, & the digital computing generation:

Pioneer: Al-Khwarizmi

Contribution: Created the Arabic Numbering System which we use today,

Digital Computing Generation: Pre-First gen.

Pioneer: Alan Turing

Contribution: Created an engine that managed to decode WWII German code.

Digital Computing Generation: First gen.

What surprised you in the presentation(s)?

How long computer science seems to have existed.

How did the people you saw differ from your original ideas about computer scientists?

They didn't really differ from my original ideas, they were just much older than I thought.

What inspired or amazed you?

We are currently attempting quantum computing and engineering.

How would your life change if you didn't have access to any computers at all? How would you do schoolwork, look up information, connect with friends?

Schoolwork involves more pencil and paper, looking up info involves a lot of books, and connecting with friends involves more physical socializing.

How has computing changed society? What do we see changing in how we compute?

Computing has made things much easier and much more convenient. Things will probably only get faster as time goes on.

What will the next generation of computers be like? What will we use them for? What current trends can we use to make predictions?

The next generation of computers will probably be much faster and used for things like space exploration and more intelligent AI.

What interests you in computing?

Programming games and simulations.