

Although personal computers have only been around since the late 1970s/early 1980s, the founding ideas and principles of computer programming have been around much longer. For each of the terms/individuals/ideas below, provide the following information:

- What time period did this occur within (e.g. 1973, late 1800s, etc.)?
- Who/what is it?
- What impact did this have on computer programming?

For example, if I had asked about the **Jacquard loom**, I would have expected you to give me the following information:

The Jacquard loom was invented in 1801 by Joseph Marie Jacquard. A loom is a device used to weave cloth. The Jacquard loom was unique in that it used punched cards (cards with small holes punched throughout the surface of the card) to control the way that the loom operated. Therefore, the same loom could weave in different ways by changing the type/sequence of cards that were fed through it. This is extremely similar to the way that the same computer hardware (e.g. iPhone) can operate differently depending on the software (e.g. apps) given to it. The punched cards used in the loom were an early form of “programming.”

In a document that will be handed-in on the first day of the 2017/18 school year, please provide information on the following:

1. Analytical Engine
2. Ada Lovelace
3. Herman Hollerith
4. Colossus
5. Fortran

If you need to contact me for clarification purposes, I can be reached at ghull@spsd.us