Outline – Comp Org and Arch Research Paper

* Describe how concepts such as RISC, pipelining, cache memory, and virtual memory have evolved over the past 25 years to improve system performance – make this first a research question, then a thesis statement.
  + Concepts –
    - RISC
      * What is RISC?
      * When was it invented?
      * Who invented it?
      * Where?
      * Why was it made?
      * What need did it fill?
      * What purpose does it serve now, if different?
      * How did that purpose change? If it did.
      * How does it work?
      * How has it impacted everyday lives?
      * Is it important to society?
      * Are there alternatives?
      * Add more questions as details emerge.
    - Virtual Memory
      * What is Virtural Memory
      * …
    - Pipelining
      * What is Pipelining?
      * …
    - Cache Memory
      * What is Cache Memory?
      * …
  + What, if any, connections are there between these concepts?
    - Have two or more coevolved?
    - Have there been any issues between two or more of these concepts?
      * Sudden advance in, or invention of, one of the concept present new issues? These issues may or may not have caused the next advance in another of these concepts.
  + Conclusion
    - Research a proper conclusion, it’s been a while
    - Must pick one of the above concepts to highlight in this section

Thoughts:

* + - Maybe treat this as interconnected 5-paragraph essays, 5 of them, minus four paragraphs, maximum. ???
      * Introduction – One paragraph. Definitions paragraph if needed.
      * RISC – Four Paragraphs.
      * Virtural Memory – Four Paragraphs.
      * Pipelining – Four Paragraphs.
      * Cache Memory – Four Paragraphs.
      * Connections between things – Up to Four Paragraphs, at least One.
      * Conclusion – One paragraph.
      * Different structures -
        + 23 paragraphs, 5 sentences per paragraph or 3 paragraphs per page or 500 words per paragraph.

5 page maximum –

23 paragraphs / 5 page max = 4.6 paragraphs per page

3 paragraph max \* 5 page max = 15 paragraphs

Words per paragraph, etc. –

500 wpp \* 15 p = 7500 words - maximum

5 spp \* 15p = 75 sentences

5spp \* 23p = 115 sentences

Step 1: Look at step two and make a timeline.

Step 2: Next, find research papers, new articles, etc., that answer the questions above. Form those answers into paragraph form. Try to maintain a consistent structure for all paragraphs, group of paragraphs, and overall. Finalize a thesis statement (Work on this from the start, and continually update it until you find one that gels). Write the introduction, definitions, and conclusion. You tracked your references…right? “Never….er, ah…always double check your references.” – Old Guy from *Real Genius*. Final edits.

Step 3: Profit