CS 3733 Pointer Take-Home Quiz - Spring 2016
Due at this start of class on Monday, January 25. Must be handed in on time.

You may get help on this from any source you wish (other than faculty) as long as you understand the answers that you submit.
In the figure below, the numbers 1000, 2000, 3000, 4000, and 5000 represent addresses in decimal.
The w, x, y1, y2, y3, y4, and z represent values stored in 4 bytes of memory.
The variable \texttt{argvp} is declared by:
\begin{verbatim}
char *** argvp;
\end{verbatim}

Find the value of each of the following or state that it cannot be found from the given information (?).
Assume that pointers take up 4 bytes.
None of the answers should be w, x, y1, y2, y3, y4, or z. Instead, use their numeric values.
Hint: The answer to the first question is 2000.

1) \texttt{w} ________

2) \texttt{x} ________

3) \texttt{y1} ________

4) \texttt{y2} ________

5) \texttt{y3} ________

6) \texttt{y4} ________

7) \texttt{z} ________

8) \texttt{argvp} ________

9) \texttt{&argvp} ________

10) \texttt{*argvp} ________

11) \texttt{**argvp} ________

12) \texttt{***argvp} ________

13) \texttt{argvp+1} ________

14) \texttt{(*(argvp+1))} ________

15) \texttt{(*argvp)+1} ________

16) \texttt{(*(*argvp)+1)} ________

17) \texttt{argvp[1]} ________

18) \texttt{(*argvp)[1]} ________

19) \texttt{*(argvp[1])} ________

20) \texttt{argvp[1][0]} ________