

Short Report- Bonus

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I make many mistakes in this homework. First, I did not realize how pivot function work. I used another way to decide the enter variable and leave variable. It worked but it did not have the 'r' and 'c' meaning. I converted it into the 'pivot way'. Second, I had some trouble to fix the position of raw when the value was the least. Therefore, I appended the results into a list and grabbed the position in the list. I thought there will be some smart way but I did not figure it out.

I also written the dual simplex. I thought it would be the same concept from the simplex originally. However, it occurred more error. Most of error happened at dividing by 0 and the answers were nan. The process of calculation would not continue. I written a programming, when the denominator was zero it would append “.

Finally, I finished the above problems. Further, I wanted the Bonus could distinguish what the timing is to use the primal simplex or the dual simplex. You can see the variable name 'obj_rhs' in the function name 'decide'. Because a first I wanted use while loop is greater obj or rhs to run the functions. Nevertheless, it did not work. So I use for loop and let the 'decide' only returned rhs.