Binding Energy of a Nucleus

Step 1: What is your isotope that you were assigned by the program? How many protons and neutrons does it contain?

Step 2: Show the calculation to get the mass defect (Δm) between the nucleus and the particles that make it up. Give your answer in amu and then convert it to kg.

Step 3: Calculate the binding energy based on the mass defect. Give your answer in both Joules and MeV. Show all your work below.

Step 4: Finally, get the binding energy per nucleon. Give this answer in MeV/nucleon.   Enter your answers into your program to verify that you did everything correctly