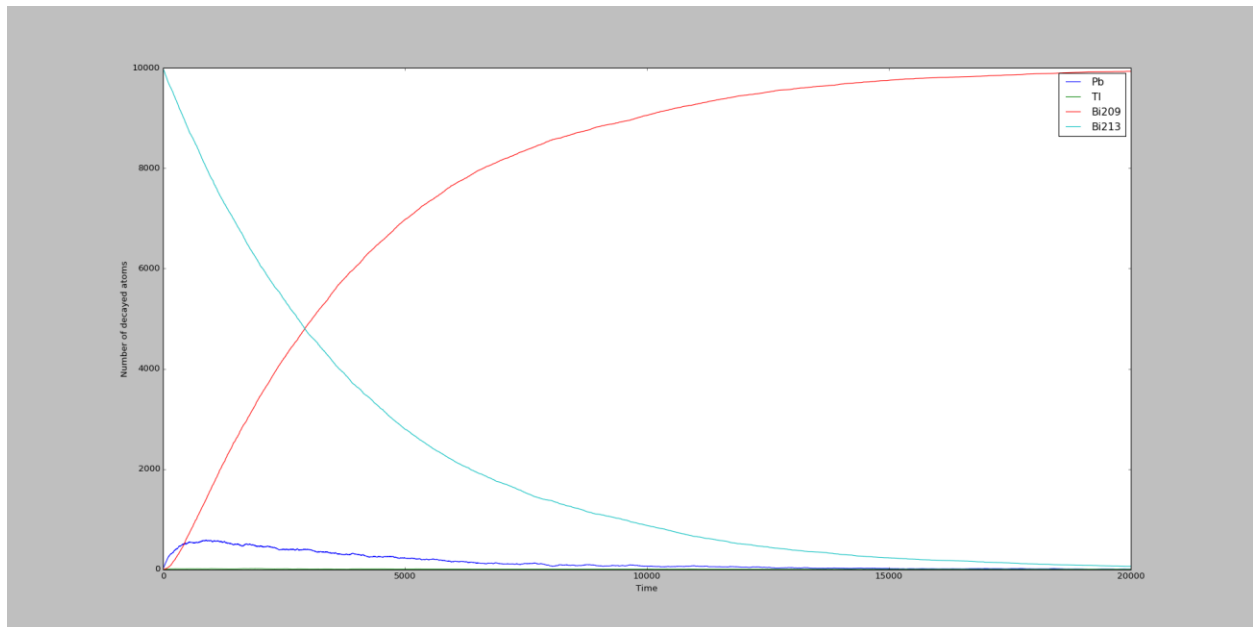


Problem 3:



This is the graph of the different decays of the atoms, since Tl is so miniscule (as the expected value of Tl is about 20 atoms for every 10,000) it is almost invisible on the graph. The Bismuth 213 decays at the expected rate, while the Lead has a slight jump in the beginning because of the Bismuth decaying to it. Eventually Bismuth 209 becomes all 10,000 atoms.