CS 21 Introduction to Java Programming:

Project 8:

1. Write a recursive function to calculate

   $A_n = (((((1*2+1)*2+1)*2+1)*2+1) ....)*2+1$

   for,

   $A_0 = 1$,
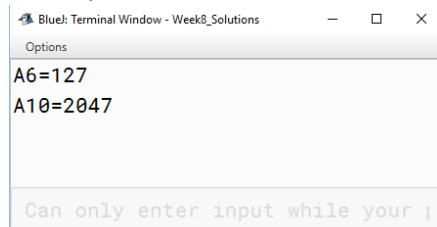 $A_1 = 1*2+1$,
   $A_2 = (1*2+1)*2+1$,

   ....

   $A_n = (((((1*2+1)*2+1)*2+1)*2+1) ....)*2+1$, where n is the number of times for multiplication by 2.

2. Please print out the value of A_6 and A_{10}
3. The expected result is:

4. Explain what are these numbers.