

5) (10 pts) ALG (Base Conversion)

a) (5 pts) Convert the hexadecimal number AF2E9 to binary without first converting to the base 10 equivalent.

b) (5 pts) Frank is the team-lead for the software testing team at his job. He is celebrating his birthday. Some of his co-workers have baked a cake for the celebration and thought that it would be really cool to put candles on his cake to represent his age in binary. An unlit candle represents the 0 bit. From the pic of the cake below, how old is Max?

