1. Write the base 16 (hex) number 1E in base 2 (binary) and base 10 (decimal).

Ans: 11110 (or 00011110) and 30.

2. How many bits are used to represent a char?

Ans: 8

3. Consider this array declaration and initialization:
   ```c
   int x[5] = {1, 2, 3, 4, 5};
   ```
   For each of (a)-(d), write the value or "impossible" if that's not possible.

   (a) `x[1]`  
   Ans: 2

   (b) `*x`  
   Ans: 1

   (c) `*(( &x[2] ) + 1)`  
   Ans: impossible (it's a pointer)