Blake Cash
Homework #5
4/12/18

Question 1:

    <u>240 Bytes</u>

    Any 1-bytes are made to go up 1 due to alignment, then combining all the results gives us 20 bytes, increase to 24 to make a multiple of 8, multiply by ten to get 240

Question 2:

    Structural Equivalence: <u>All are type equivalent</u>

    Strict Name Equivalence: <u>D not equivalent with any, A and B not equivalent with C</u>

    Loose Name Equivalence: <u>D not equivalent with any, A and B as well as C are not equivalent with one another.</u>

Question 3:

    AllocateCell deletes q at the end of it's life, creating a dangling reference

    The below revised code solves that issue

```
Cell* AllocateCell()
{
Cell q = (Cell *)  malloc (sizeof(Cell));
return q;
}

void main()
{
Cell *c = AllocateCell();
c->a;
free(c);
}
```

Question 4: $3*10*8 = 240$
          $7*8 = 56$
          $1000 + 240 + 56 = \underline{1296}$