1.
```
public int sum(int n)
{
   if (n == 1)
      return 1;
   else
      return n + sum(n - 1);
}
```

What value is returned by the method call   `sum(5)` ?

2.
```
public int result(int n)
{
   if (n == 1)
      return 2;
   else
      return 2 * result(n - 1);
}
```

What value is returned by the method call   `result(5)` ?

3.
```
public int mystery(int n, int a, int d)
{
   if (n == 1)
      return a;
   else
      return d + mystery(n - 1, a, d);
}
```

What value is returned by the method call   `mystery(3, 2, 6)` ?

4.
```
public int f(int k, int n)
{
   if (n == k)
      return k;
   else
      if (n > k)
         return f(k, n - k);
      else
         return f(k - n, n);
}
```

What value is returned by the method call   `f(6, 8)` ?