What do the following functions return?

```
1.
      0000000000000000 <fool>:
        0: 29 f7
                                   sub
                                        %esi,%edi
            89 f8
                                  mov
        2:
                                        %edi,%eax
        4:
           с3
                                   retq
2.
      0000000000000000 <foo2>:
        0: 85 f6
                                  test %esi,%esi
        2:
           7e 07
                                  jle b < foo2 + 0xb >
        4: Of af c7
                                  imul %edi,%eax
        7: ff ce
                                  dec
                                         %esi
        9: 75 f9
                                         4 <foo2+0x4>
                                   jne
        b: f3 c3
                                   repz retq
3.
      0000000000000000 <foo3>:
                                  cmp %esi,%edi
        0: 39 f7
            0f 4d f7
        2:
                                  cmovge %edi, %esi
           89 f0
        5:
                                  mov %esi, %eax
        7:
           с3
                                   retq
4.
      0000000000000000 <foo4>:
        0:
            31 c0
                                       %eax,%eax
                                   xor
        2:
            31 f6
                                  xor
                                       %esi,%esi
           39 f8
                                          %edi,%eax
        4:
                                  cmp
            7d 1c
        6:
                                          24 <foo4+0x24>
                                  jge
        8:
            85 f6
                                   test %esi,%esi
            7e 12
                                  jle
                                          1e <foo4+0x1e>
        a:
            8d 0c f5 00 00 00 00 lea
                                          0x0(,%rsi,8),%ecx
       c:
       13:
            89 f2
                                          %esi,%edx
                                   mov
       15:
            01 c8
                                   add
                                          %ecx,%eax
            83 c1 02
       17:
                                   add
                                          $0x2, %ecx
            ff ca
       1a:
                                   dec
                                          %edx
       1c:
            75 f7
                                   jne
                                         15 <foo4+0x15>
           ff c6
       1e:
                                  inc
                                         %esi
                                 cmp %edi,%esi
       20: 39 fe
       22: 7c e4
                                  jl
                                        8 <foo4+0x8>
       24: f3 c3
                                   repz retq
      int foo4(int n)
        int total = 0;
         int i,j;
         for (i = 0; i < n; i++) {
            for (j = 0; _____; j++) {
   total += ____;
         return total;
      }
```