Solution

Problem 1: (16points)

1. [1] break
   [2] break
   [3] break
   [4] no break

   [5] 0x08048370
   [6] 0x08048369
   [7] 0x08048361
   [8] 0x08048358

Problem 2: (27points)

1 [1] 0x3412 [2] 0x7856
[3] 0x12345678 [4] 0x78563412
[5] -0x14(%ebp)

2 [1] >
[2] =
[3] >

3 [1] 0xbfaa42ec [2] --
[3] 0xbfaa42d4 [4] 0xbfaa42d8

4 [1] 0x7a [2] 0x76
[3] 0x3412 [4] 0x7856

Problem 3: (28points)

1 1) [1] YES [2] NO [3] YES [4] NO

2) 2

2 [1] 7 [2] 9 [3] 10

[4] 7 [5] 1

[6] NULL

[7] 1 [8] 0 [9] 0 [10] 1 [11] 1 [12] 0

Problem 4: (28points)

1.
```
int func(int* a, int* b, int *dest)
{
    int i;
    int len_a= length(a); // (3')
    int len_b= length(b);
    int ret = *dest; // (3')

    if(len_a!= len_b)
        return 0;

    for (i = 0; i < len_a; i++) {
        //int tempSum=get_element(a,i)+get_element(b,i); (3')
        ret += a[i] * b[i]; // (3')
    }

    ret += 16*ret;// (3')

    return 1;
}
```

2. 1) [1] 1/40 [2] 1/2
   2) [1] k [2] L
      [3] i [4] N
      [5] j [6] M
   3) [1] 1/2 [2] 1/(2*10*20)