Memory Explore

```
(gdb) list 1,12

1    int main(void) {

2        char greeting[26] = "Are you not entertained?\n";

3        int num1 = 48;

4        int num2 = 0x1204;

5        int num3 = num1 + num2;

6        int *ptr = &num1;

7

8        *ptr -= 15;

9        num2 += num1--;

10

11       return 0;

12   }
```

Given the following 64-bit GDB output, circle and label the following variables in the memory dump:

greeting[], num1, num2, num3, ptr

```
(gdb) break 11

Breakpoint 1 at 0x400555: file Memory Explore.c, line 11.

(gdb) run

Starting program: Memory Explore

Breakpoint 1, main () at Memory Explore.c:11

11       return 0;

(gdb) x/64xb $rbp-64

0x7fffffffe500:    0x01    0x00    0x00    0x00    0x00    0x00    0x00    0x00

0x7fffffffe508:    0xad    0x05    0x40    0x00    0x20    0x00    0x00    0x00

0x7fffffffe510:    0x41    0x72    0x65    0x20    0x79    0x6f    0x75    0x20

0x7fffffffe518:    0x6e    0x6f    0x74    0x20    0x65    0x6e    0x74    0x65

0x7fffffffe520:    0x72    0x74    0x61    0x69    0x6e    0x65    0x64    0x3f

0x7fffffffe528:    0x0a    0x00    0x40    0x00    0x00    0x00    0x00    0x00

0x7fffffffe530:    0x0c    0xe5    0xff    0xff    0xff    0x7f    0x00    0x00

0x7fffffffe538:    0x34    0x12    0x00    0x00    0x25    0x12    0x00    0x00
```