```
int h(int hp1, int hp2, int hp3, int hp4, int hp5) {
  int h1;

  hp1++;
  h1 = hp2 + 3;
  hp2 = hp3 + hp4;
  return hp1 + hp2 + hp3 + hp4 + hp5 + h1;
}

int g(int gp1, int gp2, int gp3) {
  int g1, g2;
  return gp1 + gp2 + gp3 + g1 + g2;
}

void f(int fp1, int fp2, int fp3) {
  int f1, f2, f3;

  f1 = g(fp1, f1, f2);
  f2 = h(fp2, fp3, f1, f2, f3);
}

void main() {
  int m1, m2, m3;
  f(m1, m2, m3);
}
```

```
        .file   "test2.c"
        .text
.globl _h
        .def    _h;     .scl    2;      .type   32;     .endef
_h:
        pushl   %ebp
        movl    %esp, %ebp
        subl    $16, %esp
        addl    $1, 8(%ebp)
        movl    12(%ebp), %eax
        addl    $3, %eax
        movl    %eax, -4(%ebp)
        movl    20(%ebp), %eax
        movl    16(%ebp), %edx
        leal    (%edx,%eax), %eax
        movl    %eax, 12(%ebp)
        movl    12(%ebp), %eax
        movl    8(%ebp), %edx
        leal    (%edx,%eax), %eax
        addl    16(%ebp), %eax
        addl    20(%ebp), %eax
        addl    24(%ebp), %eax
        addl    -4(%ebp), %eax
        leave
        ret
.globl _g
        .def    _g;     .scl    2;      .type   32;     .endef
_g:
        pushl   %ebp
        movl    %esp, %ebp
        subl    $16, %esp
        movl    12(%ebp), %eax
        movl    8(%ebp), %edx
        leal    (%edx,%eax), %eax
        addl    16(%ebp), %eax
        addl    -4(%ebp), %eax
        addl    -8(%ebp), %eax
        leave
        ret
.globl _f
```



```
        .def    _f;     .scl    2;      .type   32;     .endef
_f:
        pushl   %ebp
        movl    %esp, %ebp
        subl    $36, %esp
        movl    -8(%ebp), %eax
        movl    %eax, 8(%esp)
        movl    -4(%ebp), %eax
        movl    %eax, 4(%esp)
        movl    8(%ebp), %eax
        movl    %eax, (%esp)
        call    _g
        movl    %eax, -4(%ebp)
        movl    -12(%ebp), %eax
        movl    %eax, 16(%esp)
        movl    -8(%ebp), %eax
        movl    %eax, 12(%esp)
        movl    -4(%ebp), %eax
        movl    %eax, 8(%esp)
        movl    16(%ebp), %eax
        movl    %eax, 4(%esp)
        movl    12(%ebp), %eax
        movl    %eax, (%esp)
        call    _h
        movl    %eax, -8(%ebp)
        leave
        ret
        .def    ___main;        .scl    2;      .type   32;     .endef
.globl _main
        .def    _main;  .scl    2;      .type   32;     .endef
_main:
        pushl   %ebp
        movl    %esp, %ebp
        andl    $-16, %esp
        subl    $32, %esp
        call    ___main
        movl    20(%esp), %eax
        movl    %eax, 8(%esp)
        movl    24(%esp), %eax
        movl    %eax, 4(%esp)
        movl    28(%esp), %eax
        movl    %eax, (%esp)
        call    _f
        leave
        ret
```