

Problem 1.1

1. 代码块。限制了函数中变量的生存周期。

标准答案：花括号表示代码块，可以在其中声明变量。声明的变量仅在块内有效，以'}'结尾。函数体就是这种形式的块，花括号用于描述该块的范围。

2. 7表示数字字面值常量，"7"表示字符串常量，'7'表示字符常量。

3. `ans = 10.0 + 2.0 / ((3.0 - 2.0) * 2.0);`

Problem 1.2

1. 12.0
2. 3.6
3. 18.0
4. 2.0

Problem 1.3

```
scc@LAPTOP-GBP3I3R0:~/code$ g++ test.c -o test
scc@LAPTOP-GBP3I3R0:~/code$ ./test
Hello, 6.087 students
```

```
scc@LAPTOP-GBP3I3R0:~/code$ g++ -g test.c -o test.o
scc@LAPTOP-GBP3I3R0:~/code$ gdb test.o
GNU gdb (Ubuntu 8.1.1-0ubuntu1) 8.1.1
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from test.o...done.
(gdb) run
Starting program: /home/scc/code/test.o
Hello, 6.087 students
[Inferior 1 (process 52) exited normally]
(gdb) q
```

Problem 1.4

```
#include <stdio.h>

#define MSG1 "All your base are belong to us!"

int main(void) {
    const char msg[] = MSG1;
    puts(msg);
    return 0;
}
```

Problem 1.5

1. 不应加引号, 改为 `#include <stdio>`
2. 参数类型不应为void, 改为

```
int function(int arg1) {  
    return arg1 - 1;  
}
```

3. 宏定义不应使用=

```
#define MESSAGE "Happy new year!"  
puts(MESSAGE);
```