Overview - Errors

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Outline

Ex1

```
main(void) {

  int a, b, c;
  int mean;

  a = 40;
  b = 50;
  c = 60;

  mean = (a+b+c) / 3;

  printf("a= %d \n", a);
  printf("b= %d \n", b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);

}
```

```
gcc -Wall t.c
t.c: In function 'main':
t.c:13:3: warning: implicit declaration of
function 'printf'
[-Wimplicit-function-declaration]
   printf("a= %d \n", a);
   ^
t.c:13:3: warning: incompatible implicit
declaration of built-in function 'printf'
t.c:13:3: note: include '<stdio.h>' or
provide a declaration of 'printf'
```

Ex2

```
#include <stdio.h>

main(void) {

  int a, b, c;
  int mean;

  a = 40;
  b = 50;
  c = 60;

  mean = (a+b+c) / 3;

  printf("a= %d \n", a);
  printf("b= %d \n", b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);
```

```
gcc -Wall t.c
t.c: In function 'main':
t.c:18:3: error: expected declaration
or statement *at end of input*
   printf("mean= %d \n", mean);
   ^
```

```
#include <stdio.h>

main(void) {

  int a, b, c;
  int mean;
                                gcc -Wall t.c
  a = 40;                       t.c: In function 'main':
  b = 50;                       t.c:15:3: error: expected ';'
  c = 60;                       before 'printf'
                                   printf("a= %d \n", a);
  mean = (a+b+c) / 3
                                ^
  printf("a= %d \n", a);
  printf("b= %d \n", b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);
}
```

Ex4

```c
#include <stdio.h>

main(void) {

  int a, b, c;

  a = 40;
  b = 50;
  c = 60;

  mean = (a+b+c) / 3;

  printf("a= %d \n", a);
  printf("b= %d \n", b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);
}
```

t.c: In function 'main': t.c:12:3: error: 'mean' undeclared (first use in this function) mean = (a+b+c) / 3; ^ t.c:12:3: note: each undeclared identifier is reported only once for each function it appears in

```
#include <stdio.h>

main(void) {

  int a, b, c;

  a = 40;
  b = 50;
  c = 60;

  mean = (a+b+c) / 3;

  printf("a= %d \n");
  printf(b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);
}
```

```
gcc -Wall t.c
t.c: In function 'main':
t.c:15:10: warning: format '%d' expects
a matching 'int' argument [-Wformat=]
   printf("a= %d \n");
            ^
t.c:16:10: warning: passing argument 1
of 'printf' makes pointer from integer
without a cast [-Wint-conversion]
   printf(b);
          ^
In file included from t.c:1:0:
/usr/include/stdio.h:362:12: note:
expected 'const char * restrict'
but argument is of type 'int'
 extern int printf
            ^
(const char *__restrict __format, ...);
t.c:16:3: warning: format not a string
literal and no format arguments
[-Wformat-security]
   printf(b);
   ^
```

```
#include <stdio.h>

main(void) {

  int a, b, c;

  a = 40;
  b = 50;
  c = 60;

  mean = (a+b+c) / 3;

  printf("a= %d \n", a);
  printf("b= %d \n", b);
  printf("c= %d \n", c);
  printf("mean= %d \n", mean);
}
```

```
gcc -Wall t.c
t.c: In function 'main':
t.c:16:10: warning: missing terminating " character
   printf("b= %d \n, b);
          ^
t.c:16:3: error: missing terminating " character
   printf("b= %d \n, b);
   ^
t.c:17:24: error: expected ')' before ';' token
   printf("c= %d \n", c);
                        ^
t.c:17:3: warning: passing argument 1 of 'printf' makes pointer from integer
without a cast [-Wint-conversion]
   printf("c= %d \n", c);
   ^
In file included from t.c:1:0:
/usr/include/stdio.h:362:12: note: expected 'const char * restrict' but
argument is of type 'int'
 extern int printf (const char *__restrict __format, ...);
            ^
t.c:20:1: warning: format not a string literal and no format arguments
[-Wformat-security]
 }
 ^
```