```
#include <inttypes.h>
#include <stdbool.h>
#include <stdio.h>
#include <stdlib.h>
#define PRINT ADDRESS(ADR) printf(#ADR " = 0x%" PRIxPTR "\n", (intptr t) ADR)
int main(void) {
   bool b = true;
   char c = 'A';
   int n = 255;
   double x = 123.456;
   printf("b = |%s| (%%s)\n\n", b ? "true" : "false"); // b = |true| (%s)
   printf("c = |%c| (%%c)\n", c);
                                                            // c = |A| (%c)
   print("c = |%c| (%%c)\n", c);
printf("c = |%2c| (%%2c)\n", c);
printf("c = |%-2c| (%%-2c)\n\n", c);
                                                            // c = | A| (%2c)
// c = |A| (%-2c)
                                                            // n = |255| (%d)
   printf("n = |%d| (%%d)\n", n);
   printf("n = |%i| (%%i) \n", n);
                                                            // n = |255| (%i)
   printf("n = |%5d| (%%5d)\n", n);
  // n = | 255| (%5d)
                                                           // n = |255| (%2d)

// n = |00255| (%05d)

// n = |00255| (%.5d)

// n = |255| (%-5d)
                                                           // n = | 0255| (%10.4d)
                                                           // n = |377| (%o)
                                                            // n = |0377| (%#o)
  printf("n = |%x| (%%x)\n", n);
printf("n = |%X| (%%X)\n", n);
                                                           // n = |ff| (%x)

// n = |FF| (%X)

// n = |0xff| (%#x)

// n = |0XFF| (%#X)
   printf("n = |% #x| (% % #x) \n", n);
   printf("n = |%#X| (%%#X)\n\n", n);
  // x = |123.456000| (%5f)
                                                           // x = |1.234560e+02| (%e)
   printf("x = | E| (\%E) n", x);
                                                           // x = |1.234560E+02| (%E)
   printf("x = |\$10.1e| (\$\$10.1e) \n\n", x);
                                                            // x = | 1.2e+02| (%10.1e)
  printf("x = |%f| (%%f)\n", 0.5);
printf("x = |%e| (%%e)\n", 0.5);
printf("x = |%g| (%%g)\n", 0.5);
                                                            // x = |0.500000| (%f)
// x = |5.000000e-01| (%e)
                                                            // x = |0.5| (%g)
   printf("x = |\%#g| (\%#g)\n", 0.5);
                                                            // # => 6 chiffres significatifs
                                                            // x = |0.500000| (%#g)
   printf("x = |%#g| (%%#g)\n", 1.234567);
printf("x = |%g| (%%g)\n", 0.00001);
                                                            // x = |1.23457| (%#g)
                                                            // notation scientifique
                                                            // si exp < -4 ou > 5
                                                            // x = |1e-05| (%g)
                                                            // x = |1.00000e-05| (%#g)
   printf("x = |%#g| (%%#g)\n\n", 0.00001);
   int* ptr = &n;
   printf("ptr = |%p| (%%p)\n", (void*) ptr); // ptr = |00000000022FE34| (%p)
   printf("ptr = |0x%" PRIxPTR "| (PRIxPTR)\n", (intptr_t) ptr); // ptr = |0x22fe34| (PRIxPTR)
   PRINT ADDRESS(&n);
                                                            // &n = 0x22fe34
  return EXIT SUCCESS;
}
```