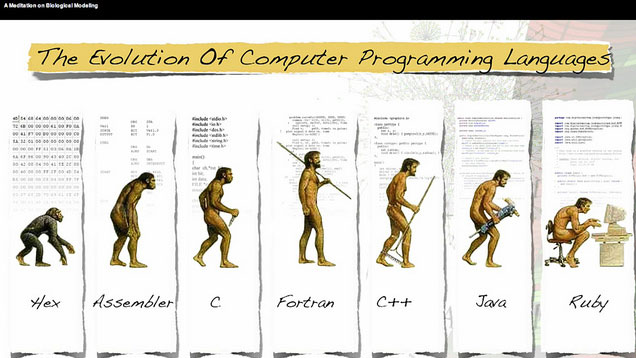
***COP2270***

***M/W***

***Spring 2017-2018***



***Professor: Yassin Raef***

***Anaisy Garcia***

***Chapter 9 Homework/ Exercises***

***One problem per page Please***

***Figure 9-2***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("%d\n", 455);***  ***printf("%i\n", 455);***  ***printf("%d\n", +455);***  ***printf("%d\n", -455);***  ***printf("%hd\n", 32000);***  ***printf("%ld\n", 2000000000L);***  ***printf("%o\n", 455);***  ***printf("%u\n", 455);***  ***printf("%u\n", -455);***  ***printf("%x\n", 455);***  ***printf("%X\n", 455);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.23.44%20PM.png* |

***Figure 9-4***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("%e\n", 1234567.89);***  ***printf("%e\n", +1234567.89);***  ***printf("%e\n", -1234567.89);***  ***printf("%E\n", 1234567.89);***  ***printf("%f\n", 1234567.89);***  ***printf("%g\n", 1234567.89);***  ***printf("%G\n", 1234567.89);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.28.49%20PM.png* |

***Figure 9-5***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***char character = 'A';***  ***printf("%c\n", character);***  ***printf("%s\n", "This is a string");***  ***char string[] = "This is a string";***  ***printf("%s\n", string);***  ***const char \*stringPtr = "This is also a string";***  ***printf("%s\n", stringPtr);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.33.15%20PM.png* |

***Figure 9-7***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int x = 12345;***  ***int \*ptr = &x;***  ***printf("The value of ptr is %p\n", ptr);***  ***printf("The address of x is %p\n\n", &x);***  ***printf("Printing a %% is a format control string\n");***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.37.51%20PM.png* |

***Figure 9-8***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("%4d\n", 1);***  ***printf("%4d\n", 12);***  ***printf("%4d\n", 123);***  ***printf("%4d\n", 1234);***  ***printf("%4d\n\n", 12345);***  ***printf("%4d\n", -1);***  ***printf("%4d\n", -12);***  ***printf("%4d\n", -123);***  ***printf("%4d\n", -1234);***  ***printf("%4d\n", -12345);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.43.42%20PM.png* |

***Figure 9-9***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***puts("Using precision for integers");***  ***int i = 873;***  ***printf("\t%.4d\n\t%.9d\n\n", i, i);***  ***puts("Using precision for floating-point numbers");***  ***double f = 123.94536;***  ***printf("\t%.3f\n\t%.3e\n\t%.3g\n\n", f, f, f);***  ***puts("Using precision for strings");***  ***char s[] = "Happy Birthday";***  ***printf("\t%.11s\n", s);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%209.56.44%20PM.png* |

***Figure 9-11***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***puts("1234567890123456789012345678901234567890\n");***  ***printf("%10s%10d%10c%10f\n\n", "hello", 7, 'a', 1.23);***  ***printf("%-10s%-10d%-10c%-10f\n", "hello", 7, 'a', 1.23);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2010.08.53%20PM.png* |

***Figure 9-12***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("%d\n%d\n", 786, -786);***  ***printf("%+d\n%+d\n", 786, -786);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2010.11.26%20PM.png* |

***Figure 9-13***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***//***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("% d\n% d\n", 547, -547);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2010.13.15%20PM.png* |

***Figure 9-14***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***//***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int c = 1427;***  ***printf("%#o\n", c);***  ***printf("%#x\n", c);***  ***printf("%#X\n", c);***  ***double p = 1427.0;***  ***printf("\n%g\n", p);***  ***printf("%#g\n", p);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2010.21.06%20PM.png* |

***Figure 9-15***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***printf("%+09d\n", 452);***  ***printf("%09d\n", 452);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2010.24.15%20PM.png* |

***Figure 9-18***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int a;***  ***int b;***  ***int c;***  ***int d;***  ***int e;***  ***int f;***  ***int g;***  ***puts("Enter seven integers: ");***  ***scanf("%d%i%i%i%o%u%x", &a, &b, &c, &d, &e, &f, &g);***  ***puts("\nThe input displayed as decimal integers is:");***  ***printf("%d %d %d %d %d %d %d\n", a, b, c, d, e, f, g);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-19%20at%2011.26.52%20PM.png* |

***Figure 9-19***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***double a;***  ***double b;***  ***double c;***  ***puts("Enter three floating-point numbers:");***  ***scanf("%le%lf%lg", &a, &b, &c);***  ***printf("\nHere are the numbers entered in plain:");***  ***puts("floating-point notation:\n");***  ***printf("%f\n%f\n%f\n", a, b, c);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.03.04%20PM.png* |

***Figure 9-20***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***char x;***  ***char y[9];***  ***printf("%s", "Enter a string: ");***  ***scanf("%c%8s", &x, y);***  ***puts("The input was:\n");***  ***printf("the character \"%c\" and the string \"%s\"\n", x, y);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.07.24%20PM.png* |

***Figure 9-21***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***char z[9];***  ***printf("%s", "Enter string: ");***  ***scanf("%8[aeiou]", z);***  ***printf("The input was \"%s\"\n", z);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.11.01%20PM.png* |

***Figure 9-22***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***char z[9];***  ***printf("%s", "Enter string: ");***  ***scanf("%8[^aeiou]", z);***  ***printf("The input was \"%s\"\n", z);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.12.03%20PM.png* |

***Figure 9-23***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int x;***  ***int y;***  ***printf("%s", "Enter a six digit integer: ");***  ***scanf("%2d%d", &x, &y);***  ***printf("The integers input were %d and %d\n", x, y);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.17.45%20PM.png* |

***Figure 9-24***

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| ***Commands*** |
| ***// Fig***  ***// Using function***  ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int month = 0;***  ***int day = 0;***  ***int year = 0;***  ***printf("%s", "Enter a date in the form mm-dd-yyyy: ");***  ***scanf("%d%\*c%d%\*c%d", &month, &day, &year);***  ***printf("month = %d day = %d year = %d\n\n", month, day, year);***  ***printf("%s", "Enter a date in the form mm/dd/yyyy: ");***  ***scanf("%d%\*c%d%\*c%d", &month, &day, &year);***  ***printf("month = %d day = %d year = %d\n", month, day, year);***  ***}*** |

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| ***Output*** |
| *../Screen%20Shot%202018-04-21%20at%208.27.09%20PM.png* |

***Figure 9-7***

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| ***Commands*** |
| ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int i;***  ***int x;***  ***int y;***  ***for (i = 1; i <= 4; i++) {***  ***printf("\nEnter two integers: ");***  ***scanf("%i%d", &x, &y);***  ***printf("%d %d\n", x, y);***  ***}***  ***return 0;***  ***}*** |

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| ***Output*** |
| *../../../../../../Desktop/Screen%20Shot%202018-04-22%20at%207.47* |

***Figure 9-10***

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| ***Commands*** |
| ***#include <stdio.h>***  ***int main(void)***  ***{***  ***int fah;***  ***double cel;***  ***printf("%10s%12s\n", "Fahrenheit", "Celcius");***  ***for (fah = 0; fah <= 212; fah++) {***  ***cel = 5.0 / 9.0 \* (fah - 32);***  ***printf("%10d%+12.3f\n", fah, cel);***  ***}***  ***return 0;***  ***}*** |

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| ***Output*** |
| *../../../../../../Desktop/Screen%20Shot%202018-04-22%20at%207.51../../../../../../Desktop/Screen%20Shot%202018-04-22%20at%207.51* |