Assignment 4

Iterative control

#include <stdio.h>

int main() {

int i;

// 1: Print "MySirG" 5 times

printf("1:\n");

for (i = 0; i < 5; i++) {

printf("MySirG ");

}

printf("\n");

// 2: Print the first 10 natural numbers

printf("2:\n");

for (i = 1; i <= 10; i++) {

printf("%d ", i);

}

printf("\n");

// 3: Print the first 10 natural numbers in reverse order

printf("3:\n");

for (i = 10; i >= 1; i--) {

printf("%d ", i);

}

printf("\n");

// 4: Print the first 10 odd natural numbers

printf("4:\n");

for (i = 1; i <= 19; i += 2) {

printf("%d ", i);

}

printf("\n");

// 5: Print the first 10 odd natural numbers in reverse order

printf("5:\n");

for (i = 19; i >= 1; i -= 2) {

printf("%d ", i);

}

printf("\n");

// 6: Print the first 10 even natural numbers

printf("6:\n");

for (i = 2; i <= 20; i += 2) {

printf("%d ", i);

}

printf("\n");

// 7: Print the first 10 even natural numbers in reverse order

printf("7:\n");

for (i = 20; i >= 2; i -= 2) {

printf("%d ", i);

}

printf("\n");

// 8: Print squares of the first 10 natural numbers

printf("8:\n");

for (i = 1; i <= 10; i++) {

printf("%d ", i \* i);

}

printf("\n");

// 9: Print cubes of the first 10 natural numbers

printf("9:\n");

for (i = 1; i <= 10; i++) {

printf("%d ", i \* i \* i);

}

printf("\n");

// 10: Print a table of 5

printf("10: Table of 5\n");

for (i = 1; i <= 10; i++) {

printf("5 x %d = %d\n", i, 5 \* i);

}

return 0;

}

