Samantha is an avid collector of lucky numbers. She believes that each number has

its own unique energy and can bring good luck if used correctly. One day, she came

across a new number that had a mysterious aura and she could not resist finding out

more about it. She heard that the number may fall within the digit combinations, so

she decided to sum up all the four-digit even numbers and then keep adding the

digits of the summation until a single digit is found to unlock its secrets. Later, she

must check again whether the single digit is odd or even. If odd, then you must say

“Odd Found” otherwise you must return “Even found”. Write a C program to help

her in finding the mysterious number.

#include <stdio.h>

int main() {

int sum = 0, num, digit;

printf("Summing up all even four-digit numbers...\n");

for (num = 1000; num <= 9998; num += 2) {

sum += num;

}

printf("Sum: %d\n", sum);

while (sum > 9) {

int tempSum = 0;

while (sum > 0) {

digit = sum % 10;

tempSum += digit;

sum /= 10;

}

sum = tempSum;

}

printf("Single digit: %d\n", sum);

if (sum % 2 == 0) {

printf("Even found\n");

} else {

printf("Odd found\n");

}

return 0;

}

