ES 112 Algorithms and Computer Programming 2020 Spring – Homework 2 – if, for

1) (40p) Write a C program which reads a number n from the user and in decreasing order prints the numbers between 1 and n (included) that are divided by 3 and at the same time are not divided by 2 and 5. Print also their summation.

Example: n: 100

Output:

99 93 87 81 69 63 57 51 39 33 27 21 9 3

the sum is: 732

2) (60p) Write a C program that reads a number n from the user and allows to print a house with a roof using '*' characters. The house should be a n x n square and the roof two diagonal lines of 45 degrees forming a roof (if n is odd the roof closes in the top perfectly).

Submission information:

Submit your .c files as a single archive (rar) file: YOUR_FULLNAME_Hw2.rar.

The archive should include YOUR_FULLNAME_Q1.c, YOUR_FULLNAME_Q2.c.

Late submissions will not be accepted! Please do your own work!