1. Write the Run Length compression algorithm for the inputs given below.

Verify the outputs for compress().

**Note:**

Run your program as java RunLength < input001.txt | java Hexdump

**Sample input - 1:**

0001 fc07 ff 0001 fc07 ff

**Sample Output - 1:**

02 02 06 02 06 02 06 02 03 01 02 01 06 02 02 02

02 02 03 02 02 02 06 02 01 03 02 01 06 02 02 02

02 02 02 02 03 01 07 02 06 02 06 02 06 02 03 01

02 01 06 02 02 02 02 02 03 02 02 02 06 02 01 03

02 01 06 02 02 02 02 02 02 02 01

600 bits

**Sample input – 2:**

0001 fc07 ff

**Sample output – 2:**

0f 07 07 0b

32 bits