Task 2:

A)
Line 206 : Double free or corruption error, its means that the program has somehow invoked the free() C runtime function with an invalid pointer.
In these case we need to make null the matrix before use the free().

Line 87: we need to check that the part[0] contains something to avoid segmentation fault in a non splittable string, if is NULL we return a failure.

B)
In this case we must be careful with the type of char variable that is inserted. since it only accepts 8-bit char variables.
For example :
unsigned char Response [3] = {0x00}.
And then we print strlen(Response).
This initializes Response to a sequence of 3 values, each of which is zero. Note that 0x00, 0, and '\ 0' (NUL terminator!!) are all the same thing.
we are expecting to see 3 but we receive just 0 even if in the braces {0x00,0x01,0x10}.
we are gonna receive 0 and not 3.