

Question 1

Encoding *LETSSAILFORTHESPANISHMAIN* with key *PIECESOFEIGHT* gave

AMXUWSWQJWXAATATCRAGMQIOU

Question 2

Decoding *ZVTVKGVBLNWYJVCLBOOHSSKFIGWYOEDNZ* with key *GOLDCOINS* gave

THISISNOTHINGTODOWITHPIRATESATALL

Question 3

Using $C1$, $C2$, and $C3$, the following M was found

ASSOONASWESTARTEDPROGRAMMINGWEFOUNDTOOOURSURPRISETHATIT
WASNTASEASYTOGETPROGRAMSRIGHTASWEHADTHOUGHTDEBUGGINGHAD
TOBEDISCOVEREDICANREMEMBERTHEEXACTINSTANTWHENIREALIZED
THATALARGEPARTOFMYLIFEFROMTHENONWASGOINGTOBESPENTIN
FINDINGMISTAKESINMYOWNPROGRAMSMAURICEWILKESDISCOVERSDEBUGGING