**WEEK 12**

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| Q1.  Please write your GitHub Repository link for your week 12 Rustlings submission: |
| ANSWER:  https://github.com/fatema721/COSC320lab9 |
| Q2.   1. Please **Find 1 (one)** specific part of the c2rust code that uses an **iterator** 2. and explain **why** that part uses an iterator **instead of a for loop**   -Important: Please also mention the **URL** where you found that iterator  -Please find **only in \*.rs** file(s) (not the \*.md, \*.html, \*.c, \*.h, etc. ) |
| ANSWER:  https://github.com/immunant/c2rust/blob/master/c2rust/src/bin/c2rust-transpile.rs  let extra\_args = args  .extra\_clang\_args  .iter()  .map(AsRef::as\_ref)  .collect::<Vec<\_>>();  c2rust\_transpile::transpile(tcfg, &compile\_commands, &extra\_args);  .iter() creates an iterator to iterate over all references of a string.  This part of the code uses an iterator because its shorter and easier to read especially since the c2rust code is long it also uses less values when compared to a loop, it turns Vec into a Vet<&str> in one line instead of a multiple lined loop. it also makes sure that the transformations are done correctly. |