Implement the following functions as described in the forward_list documentation:

https://en.cppreference.com/w/cpp/container/forward_list

1) resize (https://en.cppreference.com/w/cpp/container/forward_list/resize)

2) merge (https://en.cppreference.com/w/cpp/container/forward_list/merge)

3) splice_after (https://en.cppreference.com/w/cpp/container/forward_list/splice_after)

4) unique (https://en.cppreference.com/w/cpp/container/forward_list/unique)

*Instructions (**read carefully**)*:
- Submit on MS Teams in due time.
- Properly indent and comment your source code. Do not use conio.h, as it is not part of standard C++. Do not use clear screen function. Do not use getch function, instead use the standard getchar function (if required).
- Any genuine efforts in each part, would result in at least 50% marks (in that part). Make sure you put your best efforts to solve every part. Each part carries its own marks.
- You are getting 50% marks for any genuine efforts in all the parts to encourage you to learn, even if your program does not compile and is full of bugs). Therefore, please do not plagiarize! Plagiarism includes taking help in any form including but not limited to code, concept or idea for the solution, algorithm, and pseudocode. Taking help from any source including but not limited to classmates, seniors, internet, or AI is strictly prohibited. In case your code is plagiarized, you'll get -50% absolute marks of the whole assignment. For example, if the assignment is of 50 marks, you will get -25 marks. **Even a single plagiarized statement will count as plagiarism for the whole assignment**. Plagiarism in any two assignments would result in getting failed in the course.