Write an essay on the Modula-3 type system [1]. Your essay should cover the following issues:

1. Find and discuss three important differences between the Modula-3 type system and the Java type system.

2. Compare the Modula-3 object types with the lambda-calculus encodings you have seen in the course. Why did the designers of Modula-3 chose not to use such an encoding?

Your essay should not be longer than 6 pages. Note that we ask you to do this project *individually* (i.e., not in groups).

References

[1] L. Cardelli, J. Donahue, M. Jordan, B. Kalsow, and G. Nelson. The modula-3 type system. In *Conference Record of the 16th Annual ACM Symposium on Principles of Programming Languages*, pages 202–212. ACM, ACM, January 1989.