Programming Languages and Compilers (CS516) - Homework #3

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Contents

- 1 For each of the following loops, specify the nature of each loop dependency (if any).
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 - 1. Here, the statement S defined as A(2i) = A(i) + 1 has a true dependence on itself. We supply direction vector [<], but we cannot supply a distance vector due to the inconsistency of the dependency.
 - 2. Here, the statement S defined as A(2i) = A(7i) + 1 has an anti-dependence on itself. We supply direction vector [<], but we cannot supply a distance vector due to the inconsistency of the dependency.