

Name: _____ ITU ID: _____ Signature: _____



İSTANBUL TECHNICAL UNIVERSITY
Department of Computer Engineering
BLG412E – Computer Ethics – Spring 2014
Final Exam Question Sheet

Duration: 60 minutes.

- Rules:**
- Not open-book. No extra notes or papers are allowed.
 - Cellphones must be put away. Calculators not allowed.
 - Answer in English.
 - Write in the delineated area (text outside the area will not be marked).
 - Put your name and ID on all pages.

BLG412E FINAL

Thesaurus

Obligation: duty.

State: assert, declare.

Clause: point, article.

Determine: decide, judge.

Evaluate: judge, estimate.

Nevertheless: however, despite that.

Question 1 (30 pts): From the ACM/IEEE-CS Software Engineering Code of Ethics and Professional Practice, state the principles given in the *short version* of the code regarding obligations of software engineers to the below entities (software engineering products and the software engineering profession). For each entity, state 2 clauses (suggested behaviours) given in the *long version* of the code.

1. SOFTWARE ENGINEERING PRODUCTS.

PRINCIPLE:

EXAMPLE CLAUSE 1:

EXAMPLE CLAUSE 2:

2. SOFTWARE ENGINEERING PROFESSION.

PRINCIPLE:

EXAMPLE CLAUSE 1:

EXAMPLE CLAUSE 2:

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Question 2 (30 pts): Students working on a robot provided by a commercial company reverse engineer the robot's controller and create their own controller software. The license agreement of the software explicitly forbids reverse engineering. Nevertheless, the students release their own software as a drop-in substitute for the original, providing the same API as the original. The new software is widely used, resulting in a decrease in sales of the original software.

Discuss whether the license agreement and/or copyright have been infringed. Refer to the conditions under which the principles of fair-use and first-sale can or cannot be applied.

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Question 3 (40 pts): For each of the following persons, groups and institutions, describe briefly what they could do to help improve online privacy and evaluate briefly the effectiveness of the proposed measure.

- Individuals.

- Software engineers.

- Businesses.

- Governments.