

بسم الله الرحمن الرحيم

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Computer Science Department

Tutorial Solution: N° 1	10/9/2015
Course Title: Software Engineering	Course Code: CSC 342
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Exercise 1:

Ali, a statistical database programmer, is trying to write a large statistical program needed by his company. Programmers in this company are encouraged to write about their work and to publish their algorithms in professional journals. After months of tedious programming, Ali has found himself stuck on several parts of the program. His manager not recognizing the complexity of the problem wants the job completed within the next few days. Not knowing how to solve the problems, Ali remembers that a coworker had given him source listings from his current work and from an early version of a commercial software package developed at another company. On studying these programs, he sees two areas of code which could be directly incorporated into his own program. He uses segments of code from both his coworker and the commercial software, but does not tell anyone or mention it in the documentation. He completes the project and turns it in a day ahead of time.

- Is there a violation of the Software Engineering Code of Ethics and Professional Practice? Give the Software Engineering Code of Ethics to justify your answer?

Solution:

Yes, there is a violation of the Software Engineering Code of Ethics and Professional Practice

Principle 2: CLIENT AND EMPLOYER

2.01. Provide service in their areas of competence, being honest and forthright about any limitations of their experience and education. (Ali should have informed the Management when he was stuck so that the management may manage the situation accordingly. He might be trained on the issue or some other colleague may be attached with him to solve the situation etc)

2.02. Not knowingly use software that is obtained or retained either illegally or unethically.(He used the code , developed in other company, provided by the coworker)

2.03. Use the property of a client or employer only in ways properly authorized, and with the client's or employer's knowledge and consent.(It seems that coworker has violated this code)

Exercise 2:

Sameer works in a department of Neurology & Psychiatry. The agency administers programs for individuals maintain a huge database of information on the clients who use their services. Some of the data files contain the names and current addresses of clients. Sameer have been asked to take a look at the track records of the treatment programs. He is to put together a report that contains the number of clients seen in each program each month for the past five years, length of each client's treatment, number of clients who return after completion of a program, criminal histories of clients, and so on. In order to put together this report, Sameer has been given access to all files in the agency's mainframe computer. After assembling the data into a new file that includes the client names, he downloads it to the computer in his office. Under pressure to get the report finished by the deadline, Sameer decides he will have to work at home over the weekend in order to finish on time. He copies the information onto several disks and takes them home. After finishing the report he leaves the disks at home and forgets about them.

- Is there a violation of the Software Engineering Code of Ethics and Professional Practice? Give the Software Engineering Code of Ethics to justify your answer?

Solution:

Yes, there is a violation of the Software Engineering Code of Ethics and Professional Practice

Principle 2: CLIENT AND EMPLOYER

2.03. Use the property of a client or employer only in ways properly authorized, and with the client's or employer's knowledge and consent.(He copied the information onto several disks and took them home.)

2.05. Keep private any confidential information gained in their professional work, where such confidentiality is consistent with the public interest and consistent with the law. (After finishing the report he left the disks at home and forgot about them.)