







To defense cheating method h, the system hooked 'system' C library function. When examinee debugs a code that contains invoking of 'system', the 'CreateProcess' hook will disable it without doing anything.

To defense cheating methods i, the system will clean project directory after an examinee make sure that he has finished the examination.

To defense cheating method d, the system disables USB devices in two ways: by changing key values in registry of windows ("Software\\Microsoft\\Windows\\CurrentVersion\\Policies\\Explorer"), or by invoking 'SetupDiRemoveDevice' function when a device is connected.

To defense cheating method e, the system cleans clipboard by invoking 'EmptyClipboard' function after an examinee finished his or her examination.

The relationship between defense methods and cheating methods is shown in figure 2.

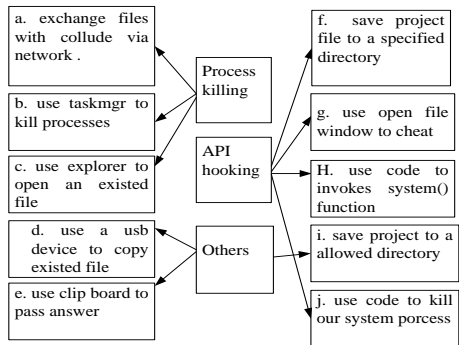


Fig. 2: Defense mechanism

#### 4. Conclusion

This paper presented an examination system for POME. It not only defense common cheating methods in common examinations but also defense special cheating methods in POME by hooking APIs of the third-party tools that is used in POME.

The system can guarantee the fairness of the POME. The system has a good performance in POME in UESTC (university of electronic and technology of China).

#### 5. References

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