**Crypto Cracking Questionnaire**

**Background Questions**

Have you ever worked on a CTF previously?

1. No
2. Yes

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| For the purposes of this questionnaire, use the following definition of *hands-on activity*:  Any assignment where you work with a given model or simulation of something, and where you must apply your theoretical knowledge and understanding on a practical level, in order to solve a specific set of problems or challenges. |

Do you personally find hands-on activities generally helpful in improving your knowledge or understanding of a topic?

1. No
2. Yes

Have you ever used hands-on activities to learn *Computer Science* topics, either personally or in a class?

1. No
2. Yes

Have you ever used hands-on activities to learn *cybersecurity* topics, either personally or in a class?

1. No
2. Yes

If you answered yes to the last question, briefly describe your experience using hands-on activities. For each case, please also answer the following questions:

* How familiar were you already with the material being taught?
* How much guidance were you given on how to complete the activity?
* Was the activity completed during class, in a lab, as an assignment, or on your own time?
* Do you believe the activity was an effective way to utilize that time?
* Did it help improve your understanding of the topic?

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**CTF Questions**

Which set of instructions did you use?

1. Instruction Set 0
2. Instruction Set 1
3. Instruction Set 2

How much of the activity were you able to complete?

1. I did not solve any
2. I was able to reveal the password for user 1
3. I was able to reveal the password for user 2
4. I was able to reveal the final flag

Approximately how many hours did you spend actively working on this challenge?

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Do you think you would have a better understanding of RSA, if you had spent the same time learning it on your own with a different approach?

1. No
2. Yes

On a scale of 1 to 5, how would you rate this activity’s difficulty?

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| --- | --- | --- |
|  |  | *1 means you thought it was trivial to solve* |
|  | *5 means you thought it was impossible to solve* |

In a sentence or two, please explain how familiar you were with RSA and public key cryptography before working on this activity?

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After working on this activity, my understanding of the theory behind RSA has \_\_\_\_\_\_

1. Not changed
2. Slightly improved
3. Greatly improved

After working on this activity, my understanding of how RSA is used and implemented has \_\_\_\_\_\_

1. Not changed
2. Slightly improved
3. Greatly improved

**Design Questions**

If you were given more guidance on how to complete this activity, how do you feel that would have impacted your learning?

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If you were given less guidance on how to complete this activity, how do you feel that would have impacted your learning?

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Are there any changes you would make to this challenge that would have improved your learning?

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What did you like and dislike about this activity?

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