

# Welcome to Cryptography Interactive Learning System!

I want to learn: 

RSA

[Why RSA?](#)

(Click it will show introduction and intention)

Let's start with **encryption**:

(Click [encryption](#) will show the following)

## Method

(hide steps before click on them, just like Chegg solutions)

Step 1 of 3 <div></div>
Step 2 of 3 <div></div>
Step 3 of 3 <div></div>

## Example (Hide example before user click on example)

Step 1 of 3 <div></div>
Step 2 of 3 <div></div>
Step 3 of 3 <div></div>

Are you ready to try it yourself? 

Yes

(Hide the following until user click 

Yes

)

[Click here](#) to see how to how to choose your numbers

(Click here: new tab to prime generator website)

or click on dice to generate a random prime number for you

prime p:  

prime q:  

exponent e:  

Click 

Check

 to see if your number work

(Check -> backend, 1. check if p, q is prime, 2. check if e works for inputted p and q  
And show up the following)

N : 

Check if it's correct

  
(if it's correct -> show **correct** under the button, vice versa)

r : 

Check if it's correct

  
(if it's correct -> show **correct** under the button, vice versa)

c : 

Check if it's correct

  
(if it's correct -> show **correct** under the button, vice versa)

(show the following after click 

Check

 for c)

GREAT JOB! You have finished enryption!  
Your encrypted message is:

... ..

## Now, let's do decryption!

d : 

Check if it's correct

  
(if it's correct -> show **correct** under the button, vice versa)

m' : 

Check if it's correct

  
(if it's correct -> show **correct** under the button, vice versa)

You will find out m' is the same as your inputted message m!