TEXT 1

It is homogeneous text consisting of letter "v" repeated 1500 times.

TEXT 2

Medium diversified text consisting of the phrase "Once You Question Your Own Belief, It's Over

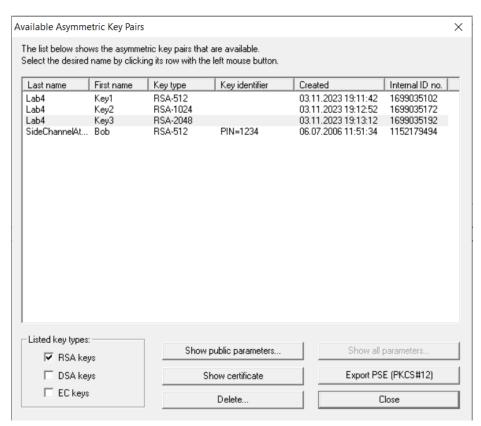
" Repeated 400 times

TEXT 3

Highly diversified text:

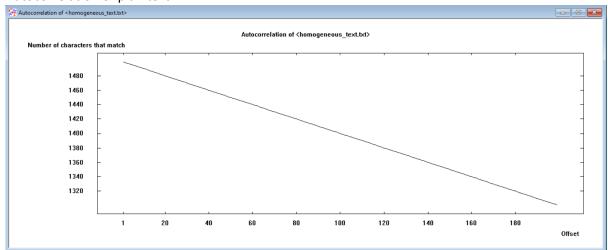
But even if I told you why, I doubt very strongly that the knowledge would change anything at all but let's just say that I take the time to explain it to you. What do you think would happen then? My goal is to fulfill the dream even Jiraya sensei was unable to achieve that is to create peace and bring about justice. Oh I see that is noble of you that would be justice. However what about my family? My friends, my village they suffered the same fate as this village at the hands of you hidden leaf ninja. How's it fair to let only you people preach about peace and justice once the land of fire and the hidden leaf had grown too big to protect the national interests. They forced feudal clans to wage war against each other and profited from it otherwise the people of the villages would've starved as it happened our little nation and its villages became the battlefield where the great nations waged through war each time they did our nation was ravaged and laid to waste after many such battles the great nations stabilized but our smaller nation suffered and barely recovered. You and I are both seeking the very same thing we both want to achieve the peace that jiraya sensei envisioned, you and I are the same, we're both motivated by our desire for peace and justice. The justice that I have delivered against the leaf village is no different from what you are trying to do to me. Everyone feels the same pain in losing something dear, you and I both have experience that same pain. You strive for your justice and I strive for mine we're both just ordinary men who have been driven to seek vengeance in the name of justice and if comes call vengeance justice such justice will only breed further vengeance and trigger a vicious cycle of hatred, right now we live in such a cycle. I know the past and can foretell our future it is the same as our history so we believe that Human beings simply cannot understand each other and they never will that the shinobi world is ruled by hatred and hatred alone. So naruto how would u confront this hatred in order to create peace? I want to know what your answer.....

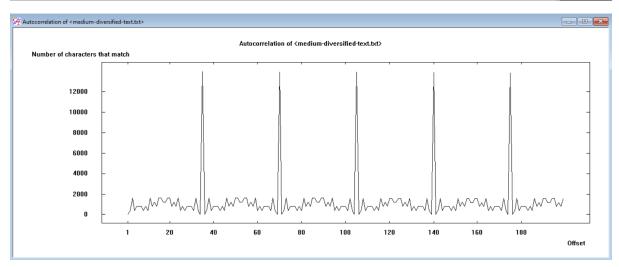
TASK 1.2

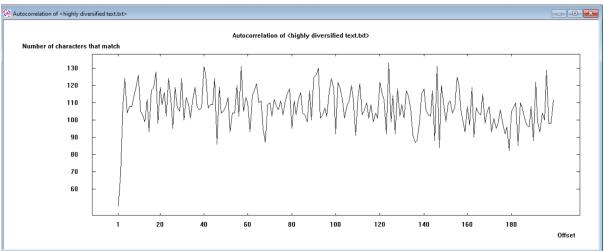


Entropy of plaintext and ciphertext depending on key length						
	Plaintext	Ciphertext				
Key length(bits)	-	512	1024	2048		
homogeneous	0	5.98/8	6.78/8	7.41/8		
middle-diversified	3.71/4.7	7.93/8	7.96/8	7.98/8		
highly diversified	4.17/4.7	7.92/8	7.9/8	7.9/8		

Autocorrelation of plaintext:

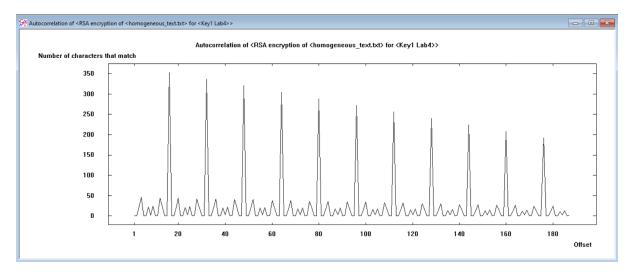




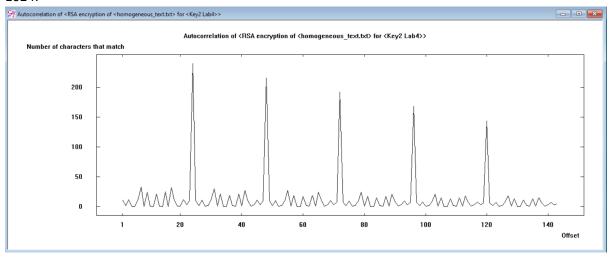


Ciphertext(homogeneous text) autocorrelation

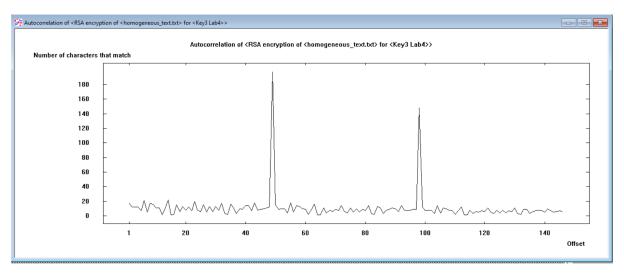
512:



1024:

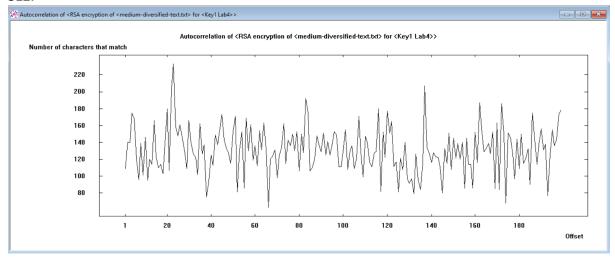


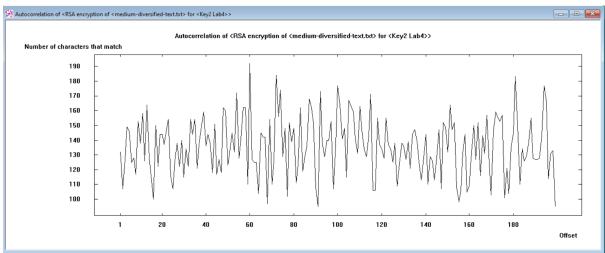
2048:

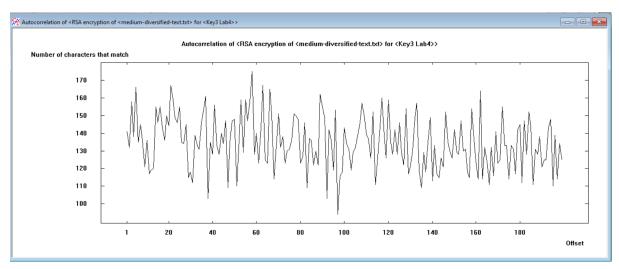


Ciphertext(middle diversified text) autocorrelation:

512:

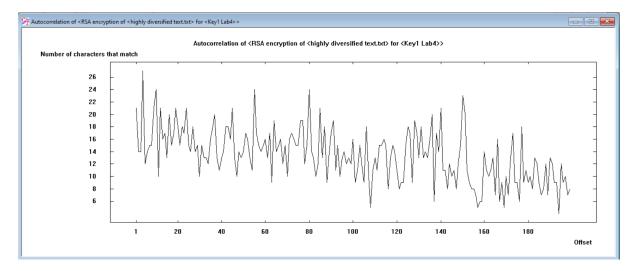




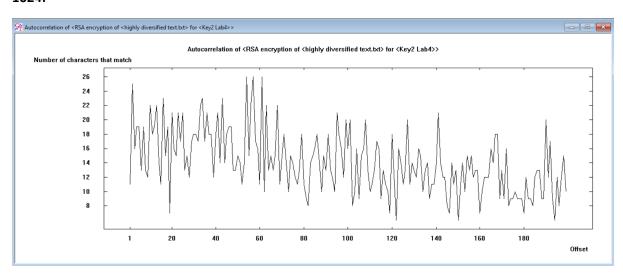


Ciphertext(highly diversified text) autocorrelation:

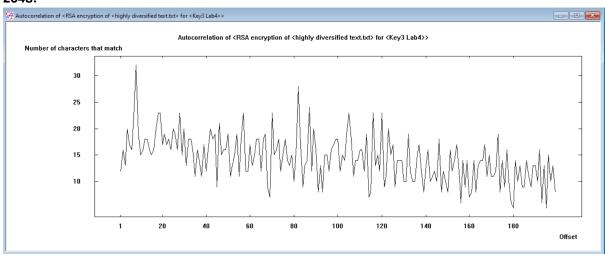
512:



1024:



2048:



Time of encryption and decryption for different files							
	Encryption			Decryption			
key length	512	1024	2048	512	1024	2048	
1 mb file	0.28	0.424	0.794	3.726	9.673	33.183	
2mb file	0.549	0.872	1.572	7.388	19.343	66.066	
5mb file	1.381	2.13	3.922	18.515	48.273	165.567	

Time of encryption and decryption using AES for different files							
	Encrpytion			Decryption			
key length	128	192	256	128	192	256	
1 mb file	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
2mb file	<0.5	<0.5	<0.5	<0.5	<0.6	<0.7	
5mb file	<0.6	<0.6	<0.6	<0.6	<0.7	<1	

RSA 512:

Change the value of one byte(last byte):

677677677362766767672666666666676766666672762272678 20C10F4667767776C015505495477F6531E6680110227723A44F13355471D 72222662762680E057777667722684405555F62603404F302558 201C080015266450F3E54914044E669030202620437010068054 67405154E566150447E300C44911075F246667266666666666676E8C51517 984C5E38550CF04855071F5C2881F5C7959830905F4375FEA 27774E925ED992F724C0304925931303F925050C95CF0804BB 79C000F1520793E56603850117905330529930E939FE39F30005180E44 797 6FE 669 773 61EE 674 775 6FE 669 775 6FE 674 775 765 6FE 674 775 765 6FE 674 775 765 6FE 775 6 46626667766226667666267667776276662667627766276602 2FE0B8844D8009697F5E0D416443FE4F540EE330435905F3A 6627656666676676676676627766766766777766777766CA 207309551799E890006505066667210033391CC20726577667769E89000650506666720133391CC20733391CC20736691CC2076776FF7 62266772766CC81525E40801025045F595D0001366C7676667262801025045F595D0001365766676628BB 277262622662766672767776266676646662666667666676640D 2044489100F841000040F9C456CCF7151955E095012FE550EE5F6 7646266667666627666666266666966766266662766727600 66266622666305E57C6674440E03515666657622766268033EB

But swem if I told you why. I doubt wery strongly that the knowledge would change enything at all but let's just say that I take the time to replain it to you What do you thin the dream even Jiraya sensei was unable to a chieve that is to create peace and bring about justice. Oh I see that is noble of you the dream even Jiraya sensei was unable to a chieve that is to create peace and bring about justice. Oh I see that is noble of you the control of the sense fate as this village they suffered the same fate as this village at the hands of you hidden leaf ninja. Bow's it fair to let cally you people preach about peace and just if had grown too big to protect the national interests. They forced feudal class to wase war against each other and profited from it estimated to the sense of the se

Removing one byte:

64F 277 734 8 68 68 69 67 67 44 68 88 BB 11 7.4 £ 0.7 66 £ 67 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 68 £ 67 6 501FC5E94610E44F2714654790850A705090154E40458C145 667226676276684C9C4C8735071055490130838099412E08

But evem if I told you why. I doubt wery rough? that the knowledge would change any ng at all but let's just say that I take time to explain it to you. What do you it k would happen them? My goal is to fulfil. I would happen them? My goal is to fulfil. I would happen them? My goal is to fulfil. I would be justice. However, the should have the same that is noble of you it would be justice. However what should have he same fate as this willege at the hands you hidden lest nings. How's it fair to cally you people presch about peace and yill have you wan against each other and prefited from interests. They forced feudal clans to war against each other and prefited from interests. They forced feudal clans to exa against each other and prefited from its willages become the battlefield while the prefit has been a some and the same was a straight to waste after many such battless the great atoms stabilized but our smaller nation to waste after many such battless the great atoms stabilized but our smaller nation. The such was a straight to waste after many such battless the great atoms stabilized but our smaller nation. The property of the same were both we to achieve the peace that jirays sense; estioned, you and I are the same, we re both we to achieve the peace that jirays sense; estioned, you and I are the same, we re both we to achieve the peace that jirays sense; estioned, you and I are the same were both we to achieve the peace that jirays sense; estioned, you and I are the same were both we to achieve the peace that jirays sense; estioned, you and I are the same were both we to achieve the peace that it have delivered again the leaf village is no different from who ou are trying to do to as Everyone feels of the same were both you and I are the same were both you are the same were both you are the same were both the same were both you are

Removing several bytes:

2 76 5 72 79 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 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10 77 10 77 10 77 10 77 10 77 10 77 10 77 10 77 75 5 6 7 7 7 9 C 0 7 6 7 4 7 7 9 C 0 7 6 7 6 7 7 9 C 0 7 6 7 9 7 9 C 0 7 6 7 9 9 C 0 7 6 7 9 9 C 0 7 6 7 9 9 C 0 7 6 7 9 9 C 0 7 9 9 C 0 7 9 9 C 0 7 9 9 C 0 7 9 9 C 0 7 9 9 C 0 7 9 9 C 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 0 7 9 9 68 77 2C 70 7.73 468 6EC 688 6EC 6 46626AEC4A94700DE0E98539ADBEE7378C67153446C33AEC95 622 (48 c) 205 (28 c) 26767D568AA7FB3F16D4CC82B8FA99FF276B021A9EBDEA0CR *625A453E71D88C53E8BE18BC55ADD0F6134D9E8BDE1A247BCA55ADD0F6134D9E8BDE1A247BCA55ADD0F6134D9E8BDE2A247BCA55ADD0F6134D9B8BDE2A247BCA55ADD0F6134D9B8BDE2A247BCA55ADD0F6134D9B8BDE2A247BCA55ADD0F6134D9B8BDE2A247BCA55ADD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F6134AD0F

Removing a piece of ciphertext equal to the length of the algorithm module(from the end):

RSA decryption of <RSA encryption of <Unnamed6> for <Key1 Lab4>> But even if 1 told you why, I doubt very strongly that the knowledge would change anything at all but let's just say that I take the time to explain it to you. What do you think would happen then? My goal is to fulfill the dream even Jiraya sensei was unable to achieve that is to create peace and bring about justice. Oh I see that is noble of you that would be justice. However what about my family? My friends, my village they suffered the same fate as this village at the hands of you hidden leaf ininja. How's it fair to let only you people preach about peace and justice once the land of fire and the hidden leaf had grown too big to protect the national interests. They forced feudal clans to wage war against each other and profiled from it otherwise the people had they suffered they forced feudal clans to wage war against each other and profiled from it otherwise the people are activated to the surface of the surface and surface and surface and barely recovered. You and I are bright a seeking the very same thing we both want to achieve the peace that jirays a sensel envisioned, you and I are both motivated by our desire for peace and justice. The justice that I have delivered against the leaf village is no different from what you are trying to do to me. Everyone feels the same pain in losing something dear, you and I both have experience that same pain. You strive for your justice and I strive for mine we're both just ordinary men who have been driven to seek vengeance in the name of justice and if comes call vengeance justice such justice such justice will only breed further vengeance and trigger a vicious cycle of hatted, right now we live in such a cycle. I know the past and can fortedill our future it is the same as our history so we believe that Human beings simply cannot understand each other and they never will that the shinobi world is ruled by hatted alone. So naruto how would u confront this hatred in order to create pead

RSA 1024:

Removing one byte:

65 76 65 8E 20 74 79 20 74 88 61 74 20 61 65 62 77 48 79 20 74 88 61 74 20 61 65 65 70 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 20 74 87 74E 673C 120 76 6FE 673C 120 76 6FE 673C 120 76 6FE 673C 120 77 6E 2772626226627666727677762666766466626666676666E4F 7677766276676676266262747762666266667667247760FF 7667627607605E44590FF401022F109251759E660097C48D542343 272766627672626626666666626667766772726667626267886 7776626726267666666662677226E8934009022E903013FB27

Removing several bytes:

Removing a piece of ciphertext equal to the length of the algorithm module(from the end):

But even if I told you why, I doubt very strongly that the knowledge would change anything at all but let's just say that I take the time to explain it to you. What do you think would happen then? My goal is to fulfill the dream even Jiraya sensei was unable to achieve that is to create peace and bring about justice. Oh I see that is noble of you that would be justice. However what about my family? My friends, my village they suffered the same fate as this village as the hands of you hidden leaf ninja. How's it fair to let only you people great a houte peace and justice concer be land of fire and grown too big to protect the nationing be reteated. Then yor force feducal clans to wage war against seach other and profited from it otherwise the people of the villages wouldves stawed as it happened our little nation and its villages became the battlefield where the great nations waged through war each time they did our nation was rawaged and lad to waste after many such battles the great nations stabilized but our smaller nation suffered and barrely recovered. You and la are both seeking the very same thing we both want to achieve the peace that jirays accept that jirays accep

The key length significantly influences the entropy of encrypted text primarily when dealing with homogeneous text. It's evident that as the key length increases, the entropy of the encrypted text also rises. However, when working with highly diverse and middle-diversified text, the key length does not seem to have any noticeable effect on the post-encryption text's entropy.

TASK 1.8

When dealing with homogeneous and middle diversified text, there is a trend: longer keys lead to wider gaps between the "peaks" in the graphs. However, with highly diverse text, the key length doesn't seem to make any difference. The autocorrelation graphs look pretty much the same, without any clear recurring patterns.

TASK 1.9

In the context of the examined algorithm, the entropy of the encrypted text consistently surpasses that of the original text, without regard to the text's characteristics or the key length. When dealing with less varied texts, the encrypted text's entropy might occasionally fall slightly short of the maximum value, but for more diverse texts, it consistently approaches the maximum attainable entropy.

TASK 1.10

The time it takes for encryption goes up as the file size and key length increase. But for files up to 5MB, it never took more than 4 seconds, which was quite manageable.

Decrypting files always to ok a lot more time than encrypting them, especially when dealing with bigger files and longer encryption keys. With a 2048-bit key, decryption consistently took more than 30 seconds, and for a 5 MB file, it often dragged on for over 2.5 minutes.

TASK 1.11

The encryption process for symmetric algorithms typically lasted around 0.3 seconds. It can be concluded that symmetric algorithm encryption happens virtually instantly. There was no noticeable difference with larger file sizes or longer keys.

Decryption, however, required more time as file sizes and key lengths grew. For smaller files (up to 2 MB), decryption finished in less than a second, possibly even in under 0.7 seconds. Even for a 5 MB file, decryption took nearly a full second. This slight increase in time might have been affected by other concurrent system processes, but it didn't pose a significant inconvenience.

If you modify a single byte, only a segment of the text changes after decryption, with the altered byte spanning the length of the block used in the algorithm (either 512 bits or 1024 bits). The rest of the text remains unchanged.

When a single byte is removed, the text alteration starts from the block where the byte was deleted, extending to the very end of the text and encompassing the key's length. Deleting multiple bytes yields a similar outcome as removing a single byte: information is lost from the block with the first deleted byte to the end of the text, regardless of the locations of the other deleted bytes. Deleting bytes from the beginning of the text results in the complete loss of the entire content.

If you eliminate a fragment from the ciphertext that matches the block length of the algorithm, only a segment of the same length in the text is lost. The information before and after the deleted block remains intact.

TASK 1.13

Certainly, the segment to be removed must align with the algorithm block's length or multiples of it. In this case, only the portion of the text matching the length of the deleted block is affected, while the remainder of the text remains legible after decryption.

TASK 1.14

Asymmetric algorithms provide greater security compared to symmetric algorithms due to the use of different keys for encryption and decryption. In symmetric algorithms, a single key is employed for both tasks, which means that if one key is compromised, the entire message can be decrypted easily. In contrast, asymmetric algorithms use distinct keys, so knowing one key does not guarantee the ability to decrypt the message, thus enhancing security. Regarding the entropy of the plaintext and encrypted data, both types of algorithms perform similarly, exhibiting better performance with dissimilar texts as opposed to homogeneous ones, regardless of key length.

However, when it comes to the speed of encryption and decryption operations, symmetric algorithms excel. Their encryption and decryption processes are considerably faster due to shorter key lengths and less complex mathematical operations. Asymmetric algorithms, on the other hand, exhibit significantly longer decryption times, particularly for files larger than 5 MB, often surpassing 2.5 minutes. This makes them impractical for encrypting large data files. Furthermore, asymmetric algorithms are more prone to data misrepresentation or partial loss in messages, often resulting in a significant portion of the plaintext or even the entire text being lost. In contrast, symmetric algorithms, depending on the mode of operation, may only lose a very small portion of the text or even just 1 byte.

TASK 1.15

If our priority is to swiftly encrypt and decrypt large volumes of data in near real-time, symmetric algorithms are the more suitable choice, as they involve less complex mathematical operations. Similarly, if we anticipate frequent interference in the ciphertexts, symmetric algorithms will result in a significantly smaller portion of the text being affected. On the contrary, if the data to be encrypted is relatively small, interference is minimal, and our primary concern is enhancing security rather than the speed of encryption and decryption, then asymmetric algorithms can be employed.