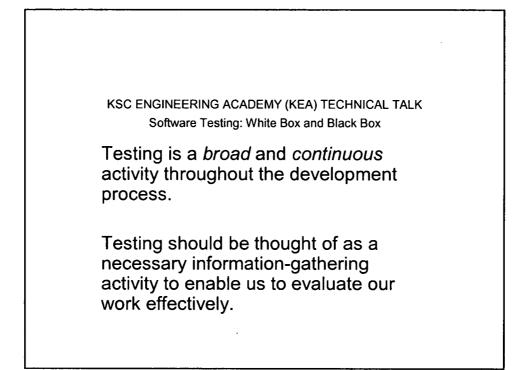


### KSC ENGINEERING ACADEMY (KEA) TECHNICAL TALK Software Testing: White Box and Black Box **Practitioners' Views of Software Testing** (Continue) Demonstrating that errors are not present Understanding the limits of performance Learning what a system is not able to do Evaluating the capabilities of a system Verifying documentation Convincing oneself that the job is finished

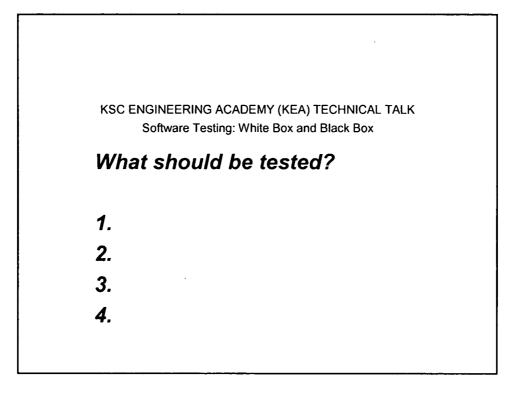


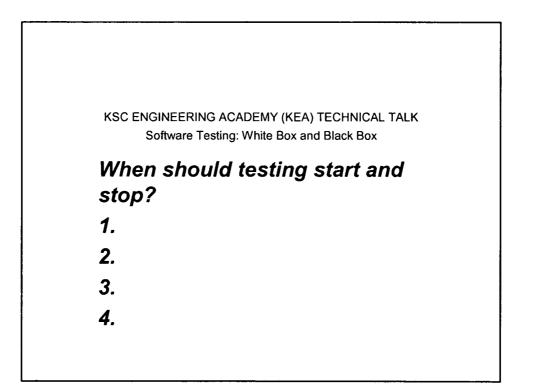
What should be tested?

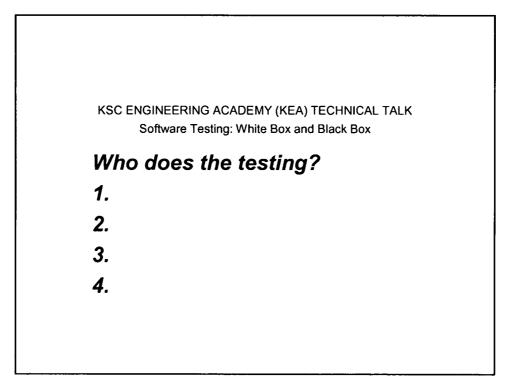
When should testing start and stop?

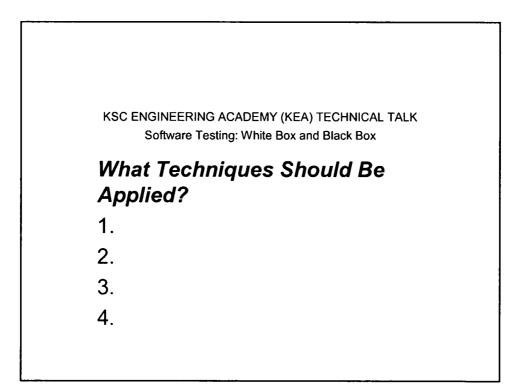
Who does the testing?

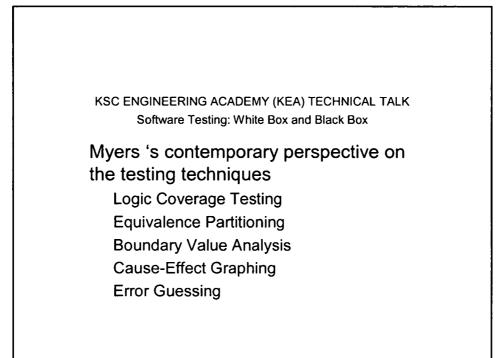
What Techniques Should Be Applied?

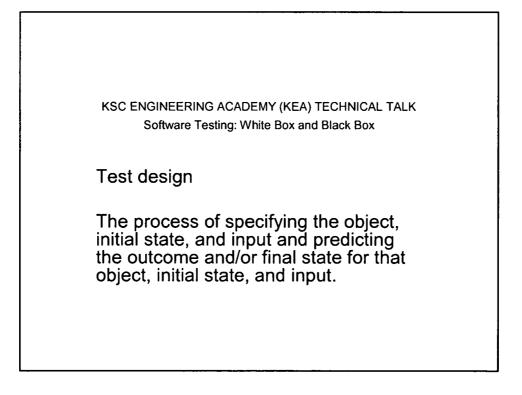






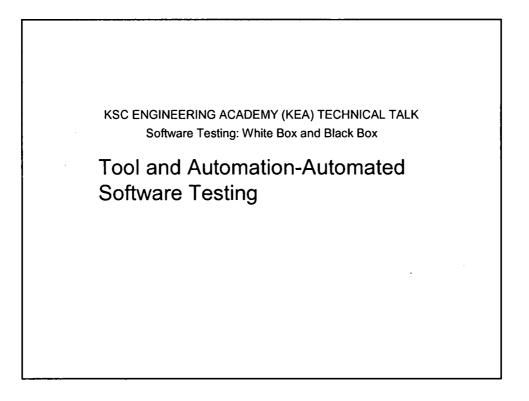






# White Box Testing (Structural Testing)

Black Box Testing (Behavioral Testing, Functional Testing)



Tool and Automation-Automated Software Testing

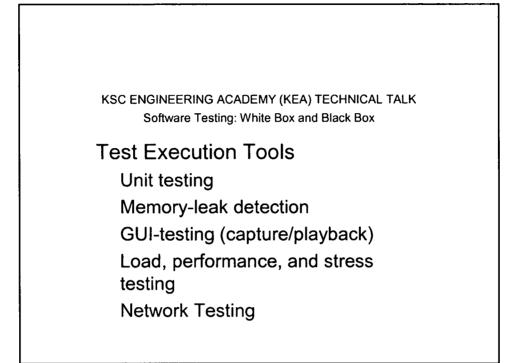
**Test Development Tools** 

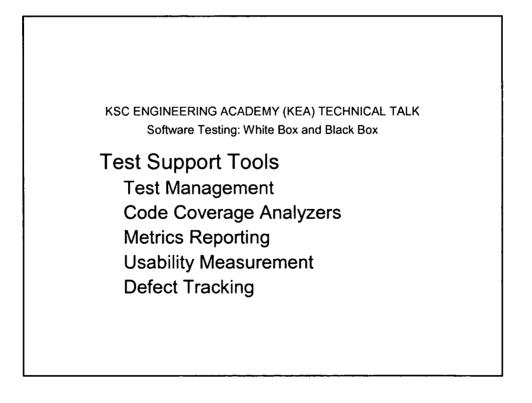
**Test Execution Tools** 

**Test Support Tools** 

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Test Development Tools Test-procedure generator Test-data generator Test-data extraction





#### Summary

Testing Through Reviews Testing Requirements Testing Designs Testing Programs—Testing in the Small Testing Systems—Testing in the Large Testing Software Changes Testing Software Packages

## KSC ENGINEERING ACADEMY (KEA) TECHNICAL TALK Software Testing: White Box and Black Box Reference: B. Beizer, Black-Box Testing: Techniques for Functional Testing of Software and Systems, John Wiley & Sons, ISBN:0471120944. B. Hetzel, The Complete Guide to Software Testing, Second Edition, John Wiley & Sons, ISBN:0471565679. R. Black, Pragmatic Software Testing: Becoming an Effective and Efficient Test Professional , John Wiley & Sons, ISBN:0470127902. W. Perry, Effective Methods for Software Testing, Third Edition, John Wiley & Sons, ISBN:9780764598371. M. Pezze & M. Young, Software Testing and Analysis: Process, Principles and Techniques, John Wiley & Sons, ISBN:9780471455936. A. Dasso & A. Funes, Verification, Validation and Testing in Software Engineering, IGA Publishing, ISBN: 9781591408512.

