**Core**

Professional Skills

.Net Interview Question Bank

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# .Net Interview Question Bank

## Technical

* Explain the concept of polymorphism.
* Explain method overriding and how to implement it.
* Explain method overloading and how to implement it.
* Draw a UML showing polymorphism through inheritance.
* Explain a private construct and can you use it?
* What is a construct?
* What does the protected key word mean?
* If a method is protected and you create an instance of that class can you run that method? Explain your answer.
* What is an abstract class?
* What is a delegate? Where are they mainly used?
* Explain what a generic is and why would you want to use them?
* Explain how Windows processes and threads work.
* What technologies have you used whilst at FDM? Which was your favourite and why?
* Why would you want to use a stored procedure?
* What tool can you use in SQL developer that allows you to see if a query is optimised?
* What would you do to optimise a query?
* Explain boxing/unboxing?
* What is the difference between objects and classes?
* Explain what a stack and a queue are.
* How do you see the next item in the stack/queue?
* What is a generic list? And why would you use them?
* What is unit testing?
* Why do you want to create mocks?
* How would you go about testing a simple calculator application?
* What are the three main OO principles?
* What is an interface? How do they differ from an abstract class?
* Why would you use an interface over an abstract class?
* What is integration testing?
* How do you implement data binding in WPF? Write the XAML.

## Generic

* Why do you want to be a developer?
* What modules did you enjoy the most at University?
* Why did you join FDM?
* How many interviews have you had whilst at FDM?
* Why did you choose the .Net Stream at FDM?
* Why did you choose the university you went to?
* Why computer science as a degree?
* What was your final project based on?
* Why did you choose that as your final project?
* Tell me about yourself.
* What did you do at university?
* What did you learn in - one of your university modules for example?
* Tell me about your job at xxxx?
* How would you feel about working long hours?
* How do you deal with pressure situations?
* Talk about a time when there was no one around to escalate a problem to, how did you deal with it?
* What is your proudest moment?
* What are you not so proud of? Tell me about a time you had to make a difficult decision?
* Talk me through your CV.
* Where do you see yourself in x years?
* Do you see yourself staying in Development/ IT?
* What did you learn from your last job?

## Client Specific

### Credit Suisse

* What are the main differences between the mockist and classicist approaches to TDD?
* If I have a type *Fruit*, from which I derive *Pear* and *Apple*, am I able to cast an array of *Fruit* to an array of *Pear*? Can I do this in reverse? How about *Pear* to *Apple*? What might be problems inherent with this?
* What is the purpose of System.TypedReference? What is its special significance within the C# language? What is the reason for this?
* What are the advantages of using List<T> over an ArrayList?
* Are there any built-in delegates in C#?
* Are there any methods which allow you to check the elements in a queue?
* What is the purpose of static fields in a class?
* What are the differences between an abstract and virtual method?
* Two tables, *Traders* (containing ID and name) and *Trades* (containing ID, and value), how would these two tables be linked?
* Write a function which takes a string and returns *true* if it is a palindrome, *false* otherwise.
* What are your best skills/attributes? Why should you get the job with Credit Suisse?
* Why Credit Suisse?
* Why FDM?
* Why IT/ a Developer?
* Why Investment Banking?
* Why do you want to work in finance? Why do you want to work for Credit Suisse?
* What drew you to being a Developer? Why will you make a good Developer?
* Tell me about an IT /Project you have done in the past and any methodologies and processes involved?
* What value can you add to the team?

### Morgan Stanley

* What are the benefits of multithreading? In which situations is it useful?
* How are we able to put multiple types into a generic, e.g. List<T>?
* How are we able to use an object taken from the list without knowing specifically which type it is? (e.g. if there are say 5 different types there)
* How does a singleton ensure there is only one instance present?
* If coding a basic monopoly game, what sort of data structures would likely be involved?

## Interviews with financial clients

When interviewing for a role with a financial client the following preparation could prove to be invaluable:

* Have a look at the Investment Banking definitions and information for help or have a look on these websites:  investopedia.com, wikipedia.com, fsa.gov.uk
* Look at the financial sites- <http://www.lsespreads.com/financial_markets>  ,Bloomberg and Reuters. Familiarise yourself with the latest news in finance. Investment Bankers would be checking this on a daily basis.
* What is the difference between an Investment Bank and a retail bank?
* What is a derivative?
* How would you use a derivative?
* What is the difference between a share and a bond?
* What is a credit default swop?
* What do you know about investment banking?
* What is a credit derivative?
* What do you know about FX?
* Why do you want to work for a bank?
* Why do you want to work in finance?
* What is equity?
* Describe the FTSE 100.
* What is a stock?
* What is a bond?
* What is the difference between equity and bonds?
* What is an IPO?