

.NET - Interview Sheet

CLR, async/await, LINQ, generics, and garbage collection

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Top 10 Interview Questions

Q1. What is the Common Language Runtime (CLR) and how does JIT compilation work in .NET?

Answer:

Q2. Explain the difference between .NET Framework, .NET Core, and the unified .NET 5+ platform.

Answer:

Q3. How does the .NET Garbage Collector work? Explain the generational collection model (Gen0, Gen1, Gen2).

Answer:

Q4. Explain async/await in .NET. What is a Task, how does ConfigureAwait(false) affect context capture?

Answer:

Q5. What is LINQ? Explain deferred execution and the difference between IQueryable and IEnumerable.

Answer:

Q6. What is the difference between value types and reference types in .NET? Explain boxing and unboxing.

Answer:

Q7. How does the .NET generic type system work? Why are generics preferred over object-based collections?

Answer:

Q8. What is NuGet and how do you create and publish a reusable class library as a NuGet package?

Answer:

Q9. Explain the Span<T> and Memory<T> types and when you would use them for performance optimization.

Answer:

Q10. How do you write unit tests in .NET using xUnit or NUnit? Explain mocking with Moq.

Answer: