

How does that look like?

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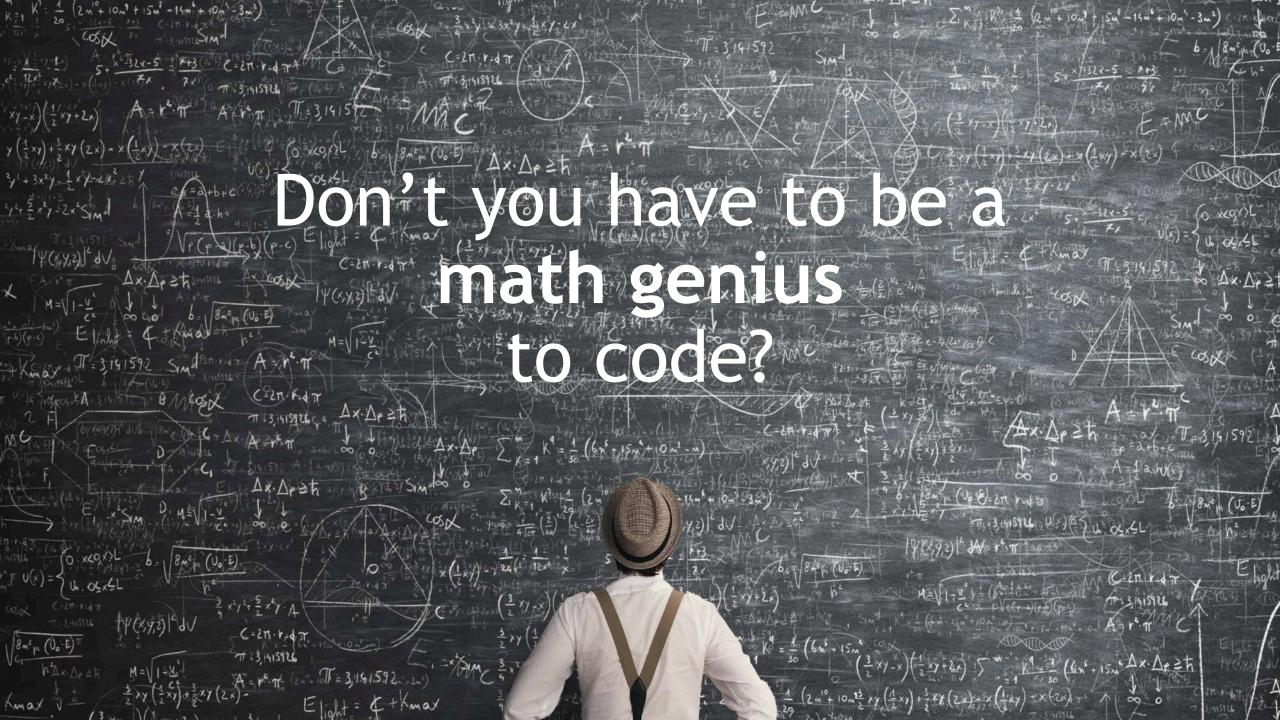








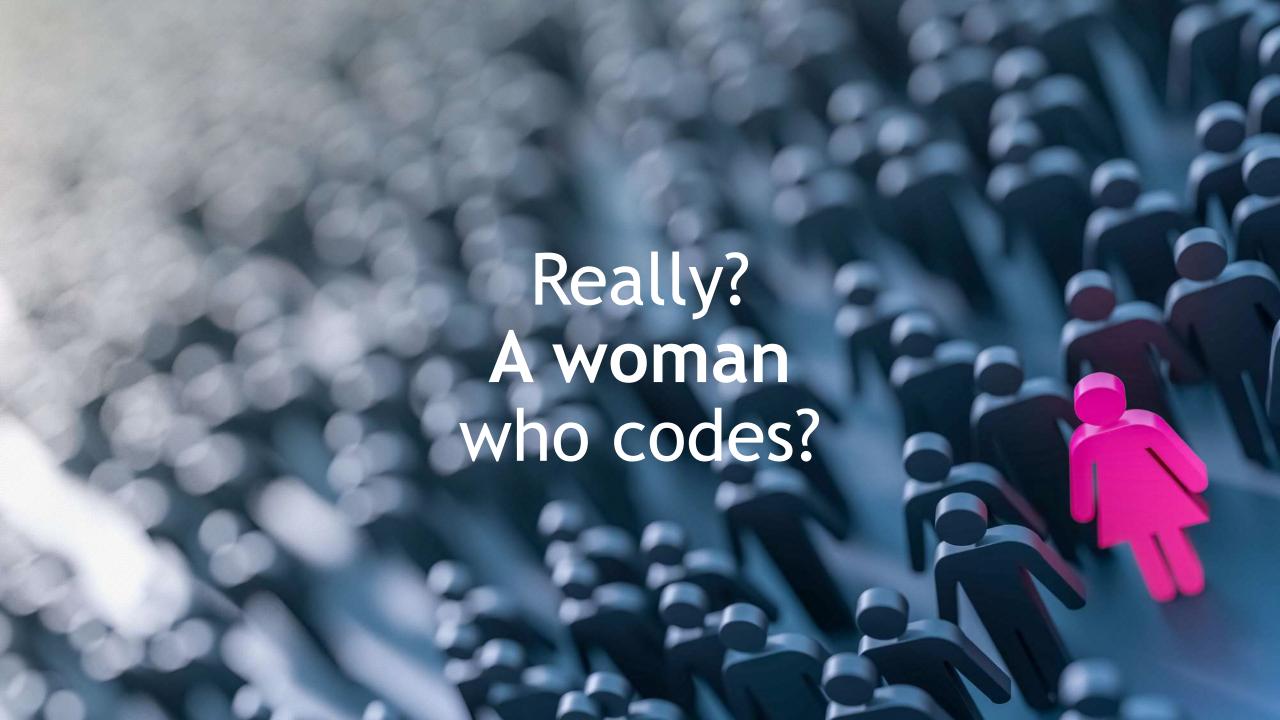














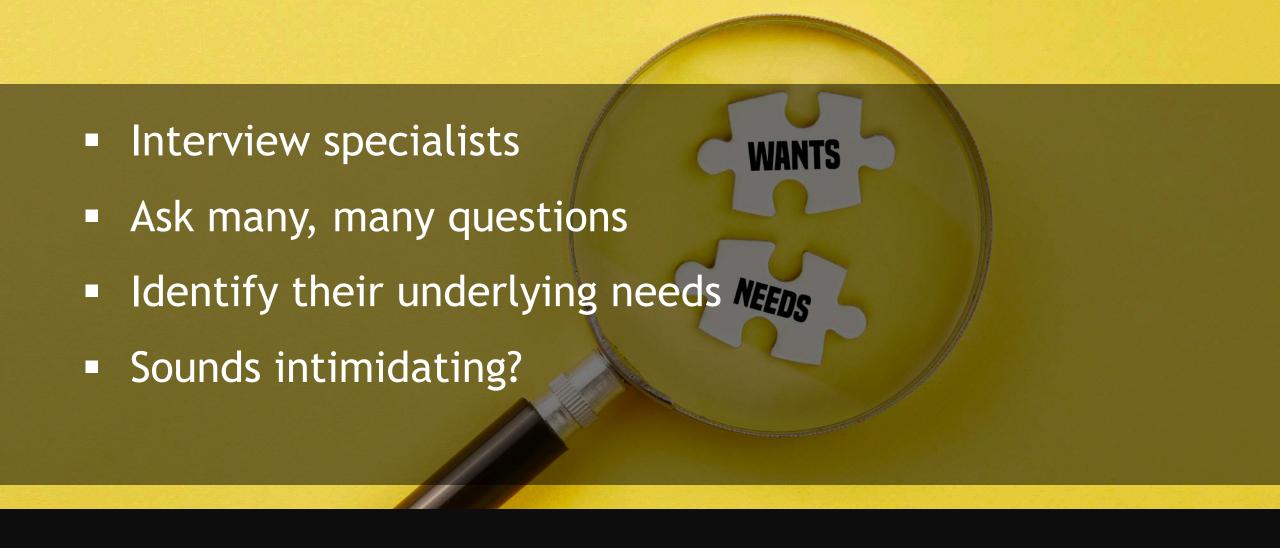
About that desk job...







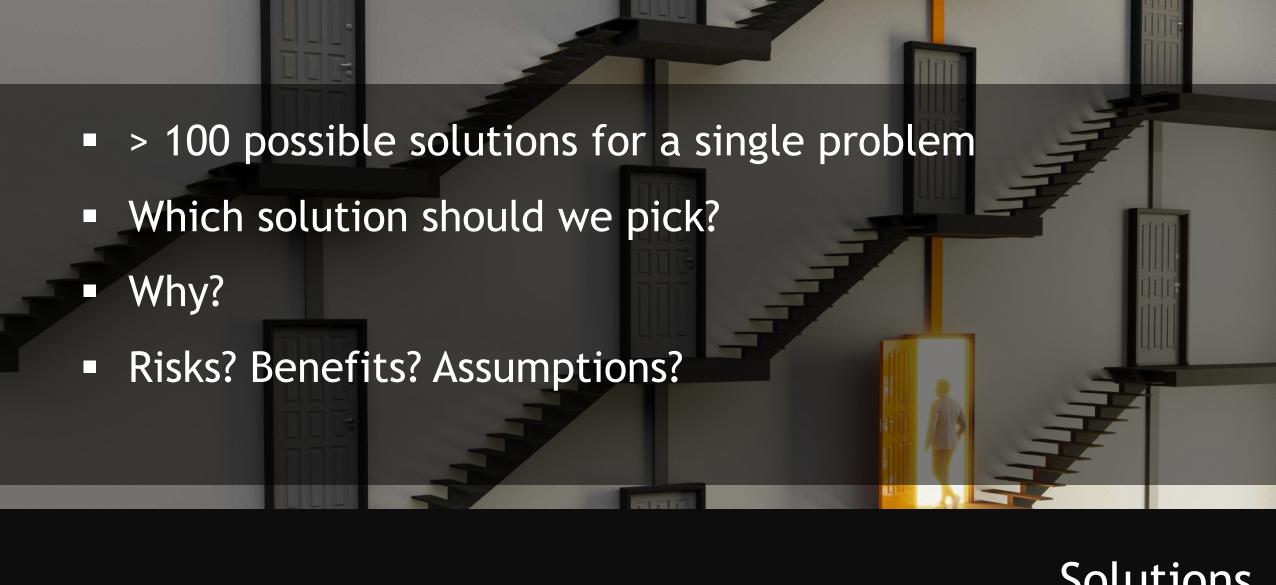
It's more about logic than it is about math



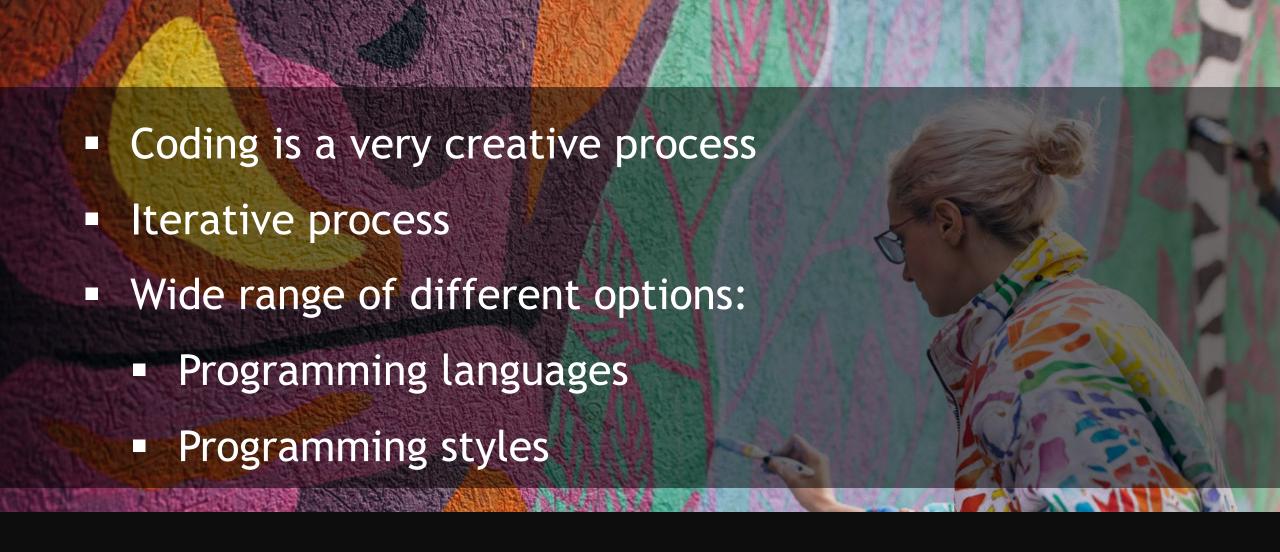
Analytical thinking

- Build up a step-by-step context
- What is the root cause?
- How, why and in which order did the scenario occur?
- Like true detectives

Problem-solving



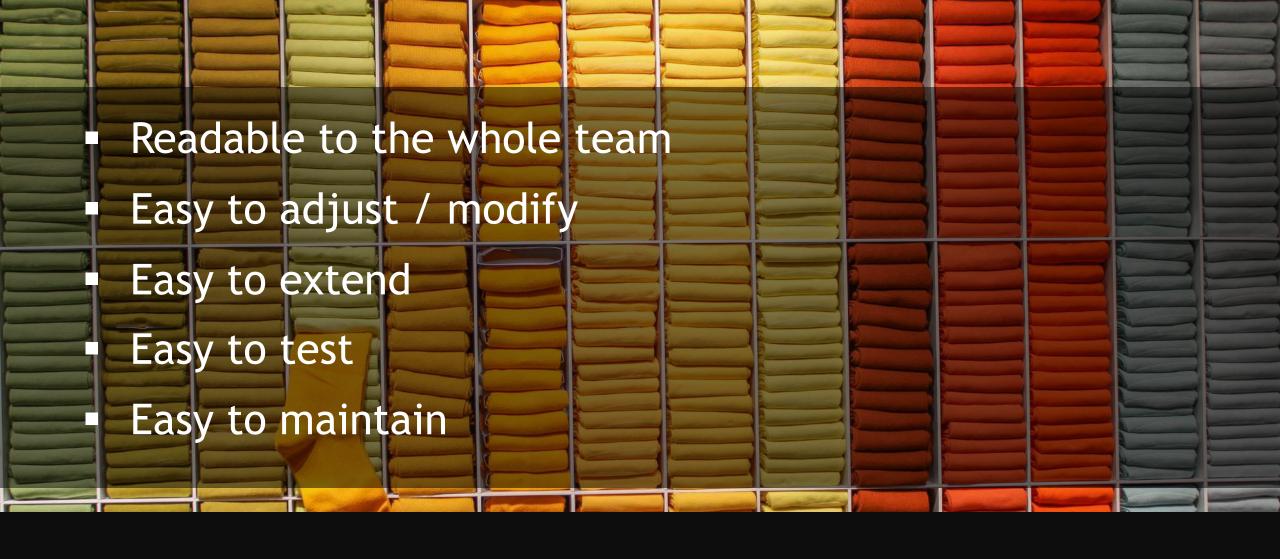
Solutions



Creativity



```
public static Delegate CreatePipelineExecutionExpression(this IBehavior[] behaviors, List<Expression> expressions = null)
        Delegate lambdaExpression = null;
        var behaviorCount = behaviors.Length - 1;
        // We start from the end of the list know the lambda expressions deeper in the call stack in advance
        for (var i = behaviorCount; i >= 0; i--)
            var currentBehavior = behaviors[i];
            var behaviorInterfaceType = currentBehavior.GetType().GetBehaviorInterface();
            if (behaviorInterfaceType == null)
10
11
                throw new InvalidOperationException("Behaviors must implement IBehavior<TInContext, TOutContext>");
12
13
            // Select the method on the type which was implemented from the behavior interface.
14
            var methodInfo = currentBehavior.GetType().GetInterfaceMap(behaviorInterfaceType).TargetMethods.FirstOrDefault();
15
            if (methodInfo == null)
16
17
                throw new InvalidOperationException("Behaviors must implement IBehavior<TInContext, TOutContext> and provide an invocation method.");
18
21
            var genericArguments = behaviorInterfaceType.GetGenericArguments();
            var inContextType = genericArguments[0];
22
            var outContextType = genericArguments[1];
23
24
            var inContextParameter = Expression.Parameter(inContextType, $"context{i}");
            if (i == behaviorCount)
27
                var doneDelegate = CreateDoneDelegate(outContextType, i);
                lambdaExpression = CreateBehaviorCallDelegate(methodInfo, inContextParameter, currentBehavior.GetType(), doneDelegate, i, expressions);
                continue;
            lambdaExpression = CreateBehaviorCallDelegate(methodInfo, inContextParameter, currentBehavior.GetType(), lambdaExpression, i, expressions);
34
        return lambdaExpression;
38 }
```



Clean code

Clean code example

```
public void WhenASaleCompletes(Order order, Customer customer)
          var nrOfOrders = dataStore.GetNumberOfFulfilledOrdersForCustomer(customer.Id);
          if (nr0f0rders == 1)
                // This is the customer's first order, let's grant them a discount code so they come back
                GrantDiscountCode(customer.Id);
          if (customer.IsRegularCustomer() && nrOfOrders == 100)
10
                GrantGoldStatus(customer.Id);
13
14
```

THE PART OF THE PA

- New tools, frameworks, code constructs, techniques...
- New business domains
- You do NOT need to know everything!
- Eagerness to learn and curiosity are crucial

Learning never stops



- Rubber-ducking
- Pair programming
- Mob programming

Collaboration

StackOverflow Twitter / Mastodon Conferences YouTube / Twitch Blogs Official documentation Pluralsight User groups TikTok Discord groups LinkedIn Learning Webinars

Community

Diversity in software engineering

- Different backgrounds
- Different opinions & perspectives
- Different ideas
- Different approaches
- Significantly impacts the end product!









