

What is Debugging?

Video transcript for 'What is Debugging?'

I recently wrote some code to program myself to make a banana smoothie, as though I was a robot.

I clearly had some bugs, or mistakes in my code.

But that's OK, mistakes happen when you're writing code. What's important is that you know how to debug your code.

Debugging is going back over the algorithms and code you have written, identifying where the program stops working, finding the bugs and then most importantly, fixing it.

So, there was definitely a bug when it came to adding the milk.

But when I look back at my code, I can see that I have a syntax bug there's a spelling mistake here – **mil** should be **milk**.

There was also a bug when it came to drinking the smoothie, this was a logic bug - I'd clearly missed something important out.

If I think logically, I can see that I've forgotten to include an instruction for the robot. I should have put, pour smoothie into the serving glass. And then I could even add a straw! **THEN** drink smoothie

Right, that's me de-bugged. Let's re-run my programme!

Put 2 peeled bananas into the blender.

Put the lid on the blender

Lift the blender from the base

Pour the smoothie into the serving glass

Add a straw.

Then drink.

Brilliant, thanks to de-bugging, my code's worked – delicious!

Hang on, I'm meant to be a robot, am I allowed to drink?