BBC Bitesize

Bubble sort - GCSE Computer Science video for the bubble sort algorithm

GAME VOICE: Bubble Sort Bash.

NARRATOR: Sort these numbers into ascending order. Low to high.

TAI PO: Got it.

NARRATOR: Compare the two numbers next to each other. Highest value on top, otherwise swap.

GAME VOICE: First pass.

NARRATOR: Ready?

TAI PO: Ready! Highest is on the bottom so … swap.

NARRATOR: Higher number goes up.

TAI PO: Highest is top. High top.

GAME VOICE: Move up.

NARRATOR: High top or swap?

TAI PO: Swap.

NARRATOR: Highest bubbles up.

TAI PO: Highest not top. So … swap.

NARRATOR: That 8 bubbles up. Is the highest on top? If not …

TAI PO: Swap.

GAME VOICE: End of the first pass.

TAI PO: The 8 bubbled all the way to the top. I'm getting the hang of this.

NARRATOR: Second pass. Ready?

TAI PO: Ready!

NARRATOR: Compare the two numbers. High top or swap?

TAI PO: High top.

GAME VOICE: Move up.

TAI PO: Swap.

NARRATOR: 6 bubbles up.

TAI PO: Swap. Swap. High top.

GAME VOICE: End of the second pass.

NARRATOR: You know what? You're really moving up in the world.

TAI PO: Hilarious.

GAME VOICE: Third pass.

NARRATOR: Let's kick this up a gear. Ready?

TAI PO: Here we go!

NARRATOR: High top or swap?

TAI PO: High top.

GAME VOICE: Move up.

TAI PO: Swap.

NARRATOR: Highest bubbles up.

TAI PO: High top. High top. High top.

GAME VOICE: High top triple combo. End of the third pass.

NARRATOR: You ready for bubble trouble?

TAI PO: Bring it.

GAME VOICE: Fourth pass.

NARRATOR: High top or swap?

TAI PO: High top. High top. High top. High top. High top.

GAME VOICE: 5 high top combo. End of the fourth pass.

TAI PO: All high tops and no swaps.

NARRATOR: Which means this data set is in order.

TAI PO: That was … inefficient.

NARRATOR: But fun.

TAI PO: But inefficient. Even when bubbles are in order, we still need to check them. Too many comparisons, too many checks, too slow.

NARRATOR: Well, if you don't like it, go play another game. Play again?

TAI PO: No chance. I'm off to play Merge Sort.

NARRATOR: Game over.