BBC Bitesize

Linear search - GCSE Computer Science video for the linear search algorithm

GAME VOICE: Linear Search Smash.

D-KODE: Ha ha ha.

NARRATOR: Linear search is looking for an element in an array or list by checking each element one by one in a linear fashion.

D-KODE: Linear searching.

NARRATOR: Either you find what you're looking for or end up checking every element but still return empty-handed.

D-KODE: I'm ready to search.

NARRATOR: The list of elements can be ordered or unordered. Choose one.

D-KODE: Erm, unordered.

GAME VOICE: Load unordered array. Load index.

NARRATOR: Okay, hide the numbers. Round one.

D-KODE: Let’s do this!

NARRATOR: Complete the search in under ten seconds to get a time bonus. Ready?

D-KODE: Ready!

NARRATOR: Find number 9.

D-KODE: Linear search ... 4

NARRATOR: No.

D-KODE: Smash.

NARRATOR: 8. No.

D-KODE: Aargh.

NARRATOR: 2. No.

NO SPEAKER: Aargh.

NARRATOR: 7. No.

D-KODE: Smash.

NARRATOR: 5. No.

D-KODE: Aargh.

GAME VOICE: Target found.

D-KODE: Yes.

NARRATOR: Search complete but no time bonus.

D-KODE: Shut up.

NARRATOR: The nine was the last place you checked. Worst-case scenario.

D-KODE: Linear search is slow.

GAME VOICE: Start new search.

NARRATOR: Ordered or unordered? Choose one.

D-KODE: Ordered.

GAME VOICE: Load ordered list. Load index.

NARRATOR: Okay, hide the numbers. Round two.

D-KODE: Let's do this!

NARRATOR: Complete the search in under ten seconds to get a time bonus.

NARRATOR: Ready?

D-KODE: Ready!

NARRATOR: Find number 1.

D-KODE: Linear searching.

GAME VOICE : Target found.

D-KODE: Ha ha.

NARRATOR: Search complete. You found number 1.

D-KODE: Yes.

NARRATOR: Plus, you get the best-case scenario time bonus. You lucky thing, you.

D-KODE: Linear search can be quick, but only if I'm lucky. Ha ha …