

Array — Handwritten FRQ

Name: _____ Period: _____ Date: _____

AP objective: VAR-2.D Points: 30

Why handwritten, in class: this replaces a typed task AI can complete. Work every item by hand and **show all your steps** — no AI, phones, or notes. A correct answer with no work earns half credit; the work is what proves it's yours.

Complete each item by hand — show all work

1. Trace this algorithm on the given array; show total after each element — 10 pts

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```
int[] a = {5, 8, 2, 9, 4};
int total = 0;
for (int x : a)
    if (x > 4) total = total + x;
```

2. Write `indexOfMax(int[] a)` that returns the INDEX of the largest element — 14 pts

Start max at index 0 — not 0 the value. This is AP FRQ #3 territory.

3. Explain why `a.length` has no parentheses but `s.length()` does — 6 pts

Oral defense (teacher — 60 sec)

Student answers one cold question aloud before grading. A student who did their own work can answer instantly; a copied one can't. Strong OK Weak

Scoring (30 pts)

Criterion	Pts	Earned
Trace correct	10	
Max-index method correct	14	
length vs length() explained	6	
<i>Gate:</i> passed oral defense (can explain the work aloud)	req'd	<input type="radio"/> Y <input type="radio"/> N
Total	30	

Integrity gate: if the student can't explain their work aloud, cap the score at 50% and require a resubmit.