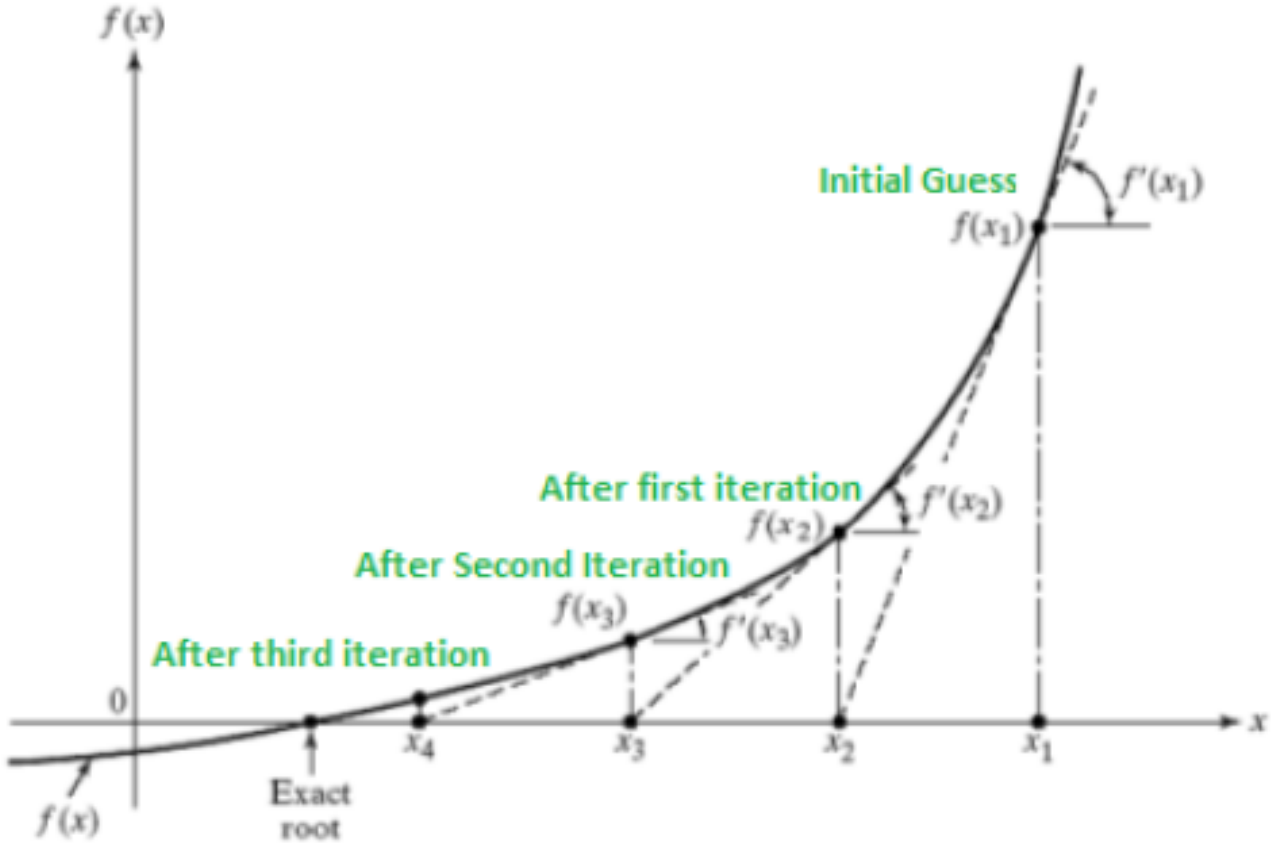
BLG102E
LAB SESSION FOURTH WEEK

(1) Newton Raphson Method



Write a C program that

- Gets a function ax^2+bx+c
- Calculates derivative on x = k
- Calculates the root iteratively

Hints

- Line : (y2-y1) = m(x2-x1)
- Use 2 close points to calculate the derivative ((x+e) and (x-e))
- You find the root when the error is very small (Root x is where y ≈ 0)

Image: https://www.geeksforgeeks.org/program-for-newton-raphson-method/

(2) Monte Hall Paradox

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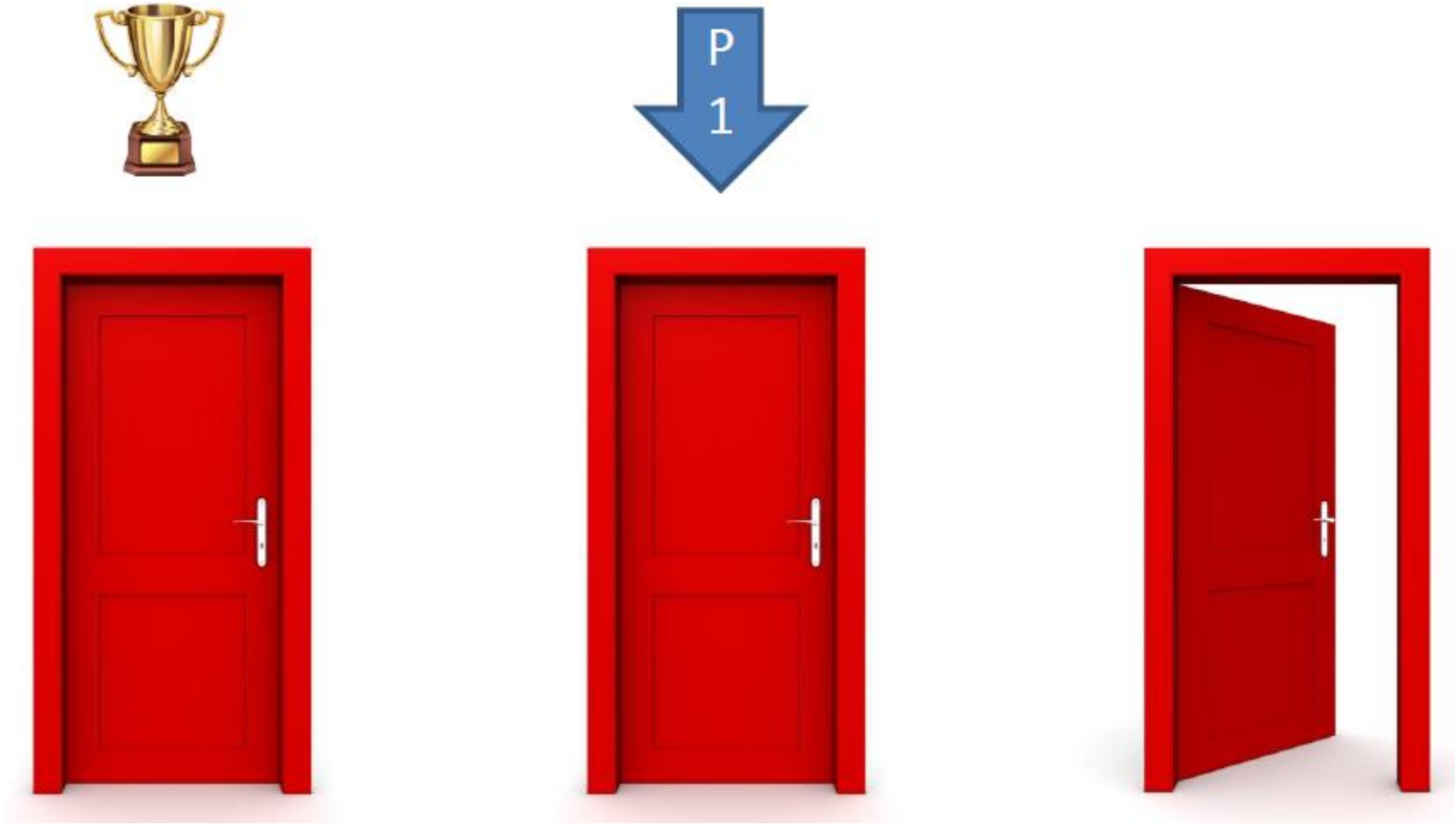
Trophy is hidden behind an random door

(2) Monte Hall Paradox

Contestant selects a door

(2) Monte Hall Paradox



Host opens an empty and unselected door

(2) Monte Hall Paradox

Contestant may change the selection now!
Should contestant change or not?