

## Quiz 3: Alpha-Beta Pruning

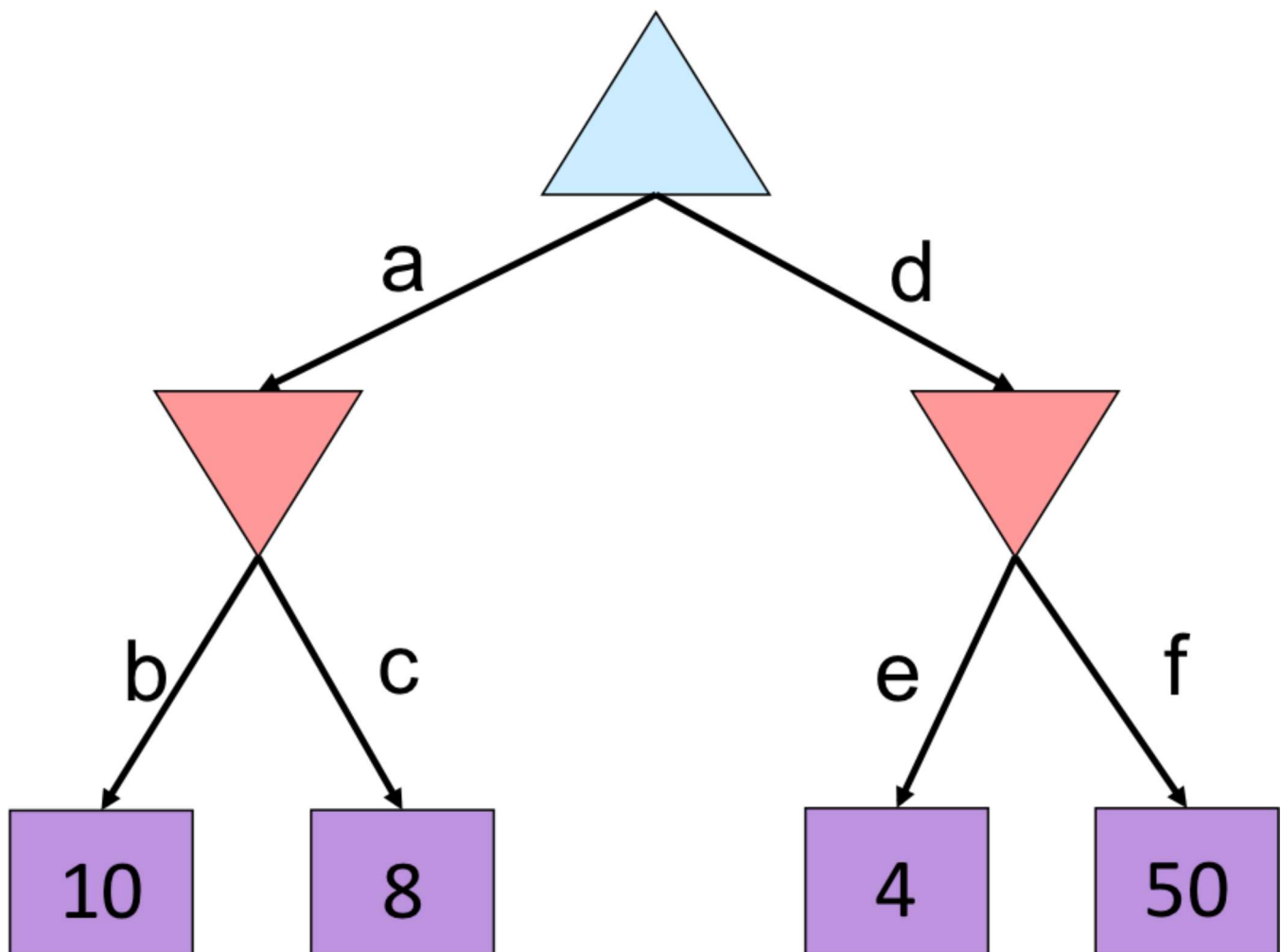
### Quiz 3: Alpha-Beta Pruning

2/2 points (ungraded)

For all of the following examples, **assume left-to-right traversal of the tree**.

#### Part 1

For the game tree shown below, which branches will be pruned by alpha-beta pruning? If the pruning happens high up in the tree, only list the branch at which the pruning actually happens. For example, if branch a is pruned, don't include b and c in your list.



☐ a

☐ b

☐ c

☐ d

☐ e

☒ f

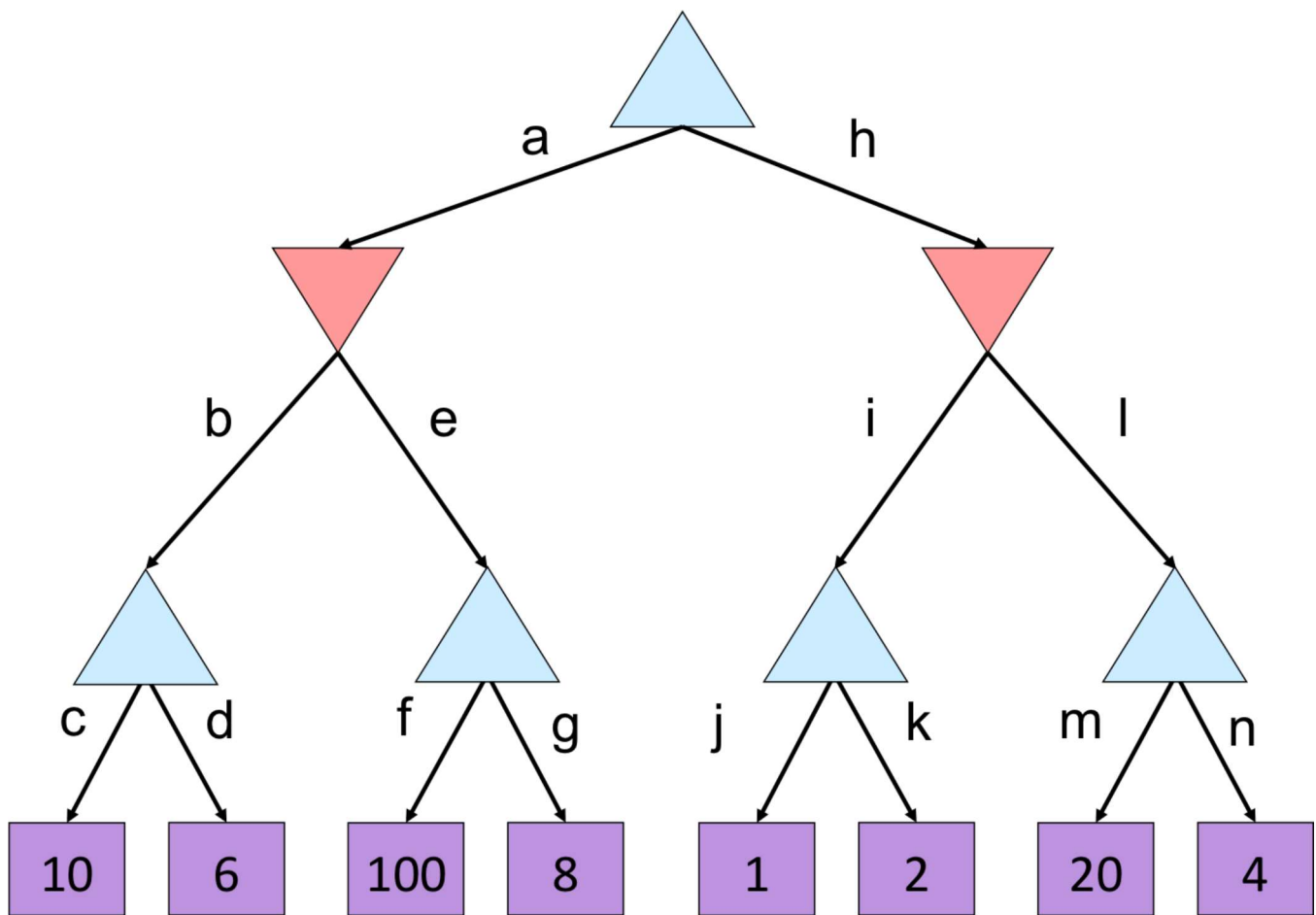
☐ No branches are pruned



## Part 2

For the game tree shown below, which branches will be pruned by alpha-beta pruning? If the pruning happens high up in the tree, only list the branch at which the pruning actually happens. For example, if branch a is pruned, don't include b, c, d, e, f, and g in your list.

We recommend you copy the tree onto a scratch sheet of paper and execute the alpha-beta algorithm on paper.



☐ a

☐ b

☐ c

☐ d

☐ e

☐ f

☒ g

☐ h

☐ i

☐ j

☐ k

☒ l

☐ m

☐ n

☐ No branches are pruned



Submit

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✓ Correct (2/2 points)