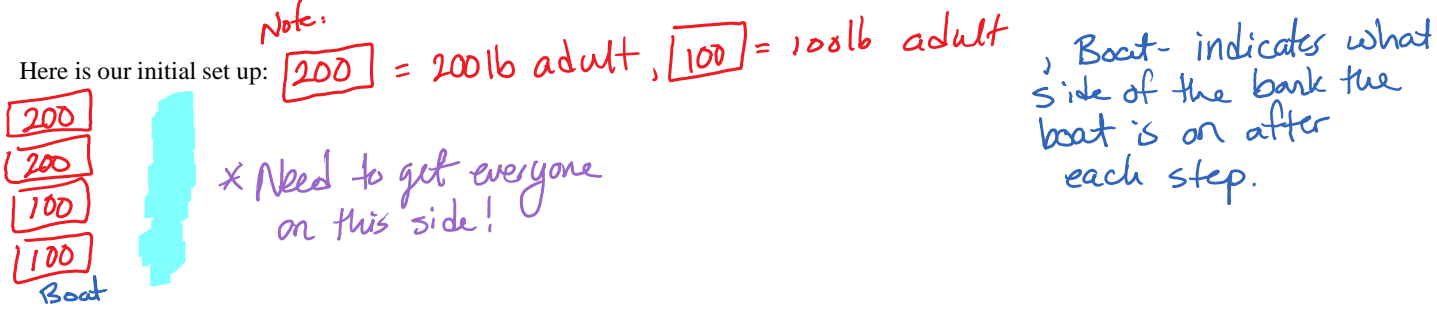


Crossing the river solution

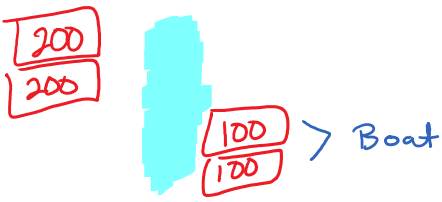
Monday, July 26, 2021 3:26 PM

On one side of a riverbank, there are two 200 lb. adults and two 100 lb. children. They have a rowboat, which anyone can row, but the boat can only hold a maximum of 200 lbs. How will they manage to get everyone across the river using only the rowboat? They can't swim! Can you come up with a solution? (Drawing a diagram can really help here!)

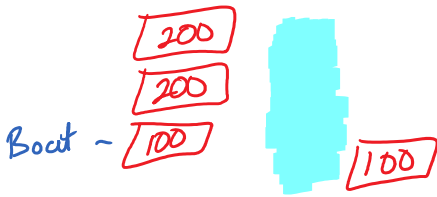
Solution: There is certainly more than one way to get everyone safely to the other side. Here is one option (not necessarily the fastest). Let's write this out in a series of steps and provide diagrams to show a visual for each step.



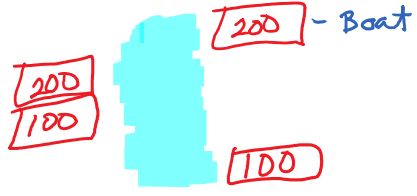
Step 1: Send the two children to the other side of the river.



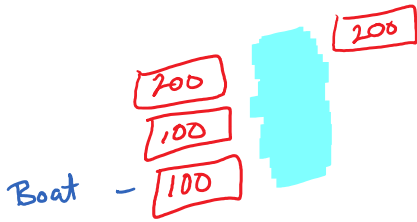
Step 2: One child goes back to the other side bringing the boat back to the adults.



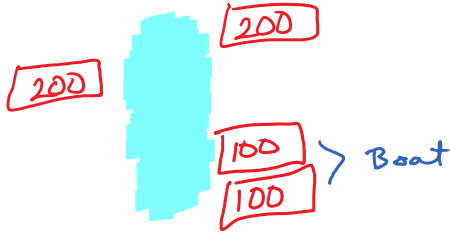
Step 3: One adult takes the boat across the river by themselves.



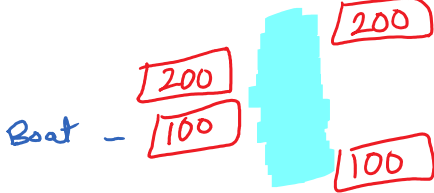
Step 4: The child on the right bank takes the boat back to the adult and child on the left, leaving only one adult on the right bank.



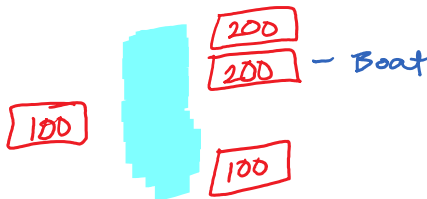
Step 5: Again, the two children take the boat from the left bank to the right bank.



Step 6: One child takes the boat back to the left bank.



Step 7: The adult on the left bank takes the boat by themselves to the right bank.



Step 8: The child on the right bank takes the boat by themselves over to the left bank to pick up the other child.



Step 9: Lastly the two children take the boat together to join the two adults on the right bank.

