Problem of the Week

Problem E

Twelve Cousins

Arya has twelve cousins. She secretly writes their ages, as positive integers, on a piece of paper. She then tells you the mean (average) of the twelve ages is $8.75$ and the median is $10$. Finally, she draws you the following histogram to represent the ages of her cousins.

How many possibilities are there for the ages of Arya’s twelve cousins?