# Problem of the Week Problem D Thumbs Up for a Job Well Done 

A team of employees completed a large project. Their manager gave them a big thumbs up. Later they were recognized more tangibly with a monetary bonus to share among themselves. The ages of the team members are consecutive integers and no one on the team has the same age. The oldest team member is 45 .
The bonus was paid out as follows:
(i) $\$ 1000$ to the oldest member of the project team plus $\frac{1}{10}$ of what remains, then
(ii) $\$ 2000$ to the second oldest member of the project team plus $\frac{1}{10}$ of what then remains, then
(iii) $\$ 3000$ to the third oldest member of the project team plus $\frac{1}{10}$ of what then remains, and so on.

After all of the bonus money had been distributed, each member of the project team had received the same amount. What is the age of the youngest member of the project team?


