**Meal Box Problem**: It's early morning and 20 school kids are lined up according to their roll numbers (ascending order) at the bus stop waiting for the school bus. John is one of them. Suddenly John's mom realized that he forgot to pack his meal box. She rushes to the bus stop to find John. However, she knows that the kids love to play an unusual game while waiting for the bus. Each of them wears an identical mask. They then change their position 4 places forward if they wait more than 5 minutes on the same spot. It is to be noted if no forward position is available the remaining steps are rolled back at the end of the line. John's mom takes 3 minutes to identify whether a kid is John or not. She can start the search in the line anywhere she wants.

NT: John's mom knows John's roll number (which is 32). However, she does not know how many rounds of game has been played so far.

NT 2: The kids may not have consecutive roll numbers.

Write a general program following OOP principles of design that gives out:

1. The minimum time (in the worst situation) that John's mom needs for the school bus to arrive at the bus stop so that she hands over the meal box to John (given John's roll number).

2. The position from the front of the line where John was found out.

15 17 20 27 30 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14

9 10 11 12 13 14 15 16 17 18 19 20 1 2 3 4 5 6 7 8