

Analysis of the problem “Toss the coin”

1. Use random number generator to simulate the toss.
If the random number generated is an even number, that can be used to indicate a head toss, and if the random number generated is an odd number, that can be used to indicate a tail toss. See lab description on how to perform random number generation in C++.
 - a. Use modulus operation to differentiate even and odd numbers.
2. You need to set up two counters.
 - a. The first counter will count the number of total tosses occurred before 3 consecutive heads are seen. Make sure to set this counter to 0 before the loop starts
 - b. The second counter will be used to count the number of consecutive heads. This counter also needs to be set to 0 before the toss starts. Each time a head is seen, it should increment this counter by 1. But, whenever a tail is seen, it should reset the counter back to 0 because the tail has broken the consecutive heads, and now the count should start from 0 again.
3. While loop
 - a. The repeated coin toss and displaying of the toss are achieved using a while loop.
 - b. The loop should continue as long as the second count, i.e., the count of the consecutive heads, is less than 3.