

## **Here are the questions from [8.4 Sequential importance resampling - Quiz]**

*1. Why does the new resampled particles all get the same weight?*

Optional Answers:

1. They are independent samples from the posterior, hence, all are equally probable. However, we will resample probable particles many times!
2. As we draw the new particles at random we don't know what weight they had to begin with. Equal seems like our safest bet!
3. People have tried setting the weights differently but this seems to work best in practice.

*2. Pause the video here and go back and try to find the correct resampled particle representation.*

Optional Answers:

Thank You