

# Problem of the Week 

Finishing date：04／28／2017

Let $A, B, C$ and $D_{1}$ denote four solid balls tangent to each other． Ball $D_{1}$ has radius equal to 1 ．Denote by $D_{2}$ the ball tangent to $A$ ， $B, C$ and $D_{1}$ ．Denote by $D_{3}$ the ball tangent to $A, B, C$ and $D_{2}$ ，and so on $D_{n+1}$ is the ball tangent to $A, B, C$ and $D_{n}$ ．Find the radius of $D_{2017}$ ．

## Previous problem winners：

Brendan Caseria（first solution） and Stephen Skapek．

