Goals

- Identify when multiple base cases are needed in strong induction
- Describe graphs and explain why they are useful
Let $P(n)$ be the predicate that $\text{Funk}(n)$ returns $3^n - 2^n$. We will prove $P(n)$ is true for all $n \geq \_\_\_$.  
Base case: __________.  
Inductive step: Let $k \geq \_\_\_. $Assume for strong induction that $P(j)$ is true for all $j$ such that __________.

\begin{verbatim}
Funk(s)
Input : Integer m
Output: $3^m - 2^m$
1 if $m \leq 1$ then
2 | return m;
3 end
4 return $5 \times \text{Funk}(m - 1) - 6 \times \text{Funk}(m - 2)$;
\end{verbatim}