```
function [Z] = joshStumpffZ(z,n)
% AERO 351 code
% Generates the first n terms of the stumpff coeffcients for @S(z) and @C(z)
  in a vector
% for use as companion function with joshStrumpffCoeffs
% @S(z) == sum(S.*Z) == polyval(flip(S),z): where S given by (-1)^k*(1/2)
factorial(2*k+2))
% \ @C(z) == \ sum(C.*Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) == \ polyval(flip(C),z) : where C given by (-1)^k*(1/Z) == \ polyval(flip(C),z) == \ polyva
factorial(2*k+3))
arguments
                    z (1,1)
                    n (1,1) {mustBePositive,mustBeInteger} = 15;
end
Z = ones(1,n);
for i = 2:n
                    Z(i) = z*Z(i-1);
end
end
```

Published with MATLAB® R2022a