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**Algorithm 2.1:** Given data  $D$  and  $d$ , what is the algorithm doing?

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1 Function [] = WHAT-IS-THIS-CODE-DOING( $D, d$ )
2    $\text{me} = \text{myid}()$ 
3   for  $k = 0$  to  $d - 1$  do
4     if  $\text{me} < 2^{k+1}$  then
5       //  $\text{me}$  is sending or receiving in step  $k$ 
6       if  $\text{me} < 2^k$  then
7         | send data  $D$  to  $P_{\text{me}+2^k}$ 
8       else
9         | receive data  $D$  from  $P_{\text{me}-2^k}$ 
```

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