

4.9

2000		2
1000		2
500		2
250		2
125		5
25		5
5		5
1		

$$2000 = 2^4 \cdot 5^3$$

$$2000^{2000} = (2^4 \cdot 5^3)^{2000} = 2^{4 \cdot 2000} \cdot 5^{3 \cdot 2000} = 2^{8000} \cdot 5^{6000}$$