Jama 8 Catalin Laplana

18. Alice ji Bob dorese så stabilorså o cheir recreta al pe core são o curooscà doar ei) folorind dystoriteme siffire—Hellmon. Ei aleg nomarul prim n=175i generatorul g=5 al lui 217. Alice alge exponental secret a=3, in Bob alege exponental recret b=6. Det cheia ba.

$$M = g^{a} \pmod{p}$$

$$M = 5^{3} \pmod{17} = 5 \cdot 5^{2} \pmod{17} =$$

$$= 5 \cdot 8 \pmod{17} = 6 \pmod{17}$$

$$h = \mu^{b} \pmod{p}$$

$$h = 6^{6} \pmod{17} = (6^{2})^{3} \pmod{17} = 2^{3} \pmod{17}$$

$$= 8 \pmod{17}$$

$$V = 5^{6} \pmod{17} = (5^{2})^{3} \pmod{17} = 8^{3} \pmod{17} =$$

$$= 8 \cdot 13 \pmod{17} = 2 \pmod{17}$$

$$h = v^{a} \pmod{p}$$

$$h = 2^{3} \pmod{17} = 8 \pmod{17}$$

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