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3,M,S,G,S,F,W,L,L,L,S,L,V,A,V,I,A,A,Q,S,T,I,E,E,Q,A,K,T,F,L,D,K,F,N,H,E,A,E,D,L,F,H,E,N,S,L,A,S,W,N,Y,N,T,N,I,T,E,E,N,V,Q,

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10,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,R,F,H,S,G,F,H,F,-,-,-,-,-,-,-,-,-,-,L,S,S,W,N,S,H,T,Y,R,G,R,N,G,L,E,

11,M,S,G,S,S,W,L,L,L,S,L,V,A,V,T,A,A,Q,S,T,I,E,E,Q,A,K,T,F,L,D,K,F,N,H,E,A,E,D,L,F,Y,Q,S,S,L,A,S,W,N,Y,N,T,N,I,T,E,E,N,V,Q,

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16,M,S,G,S,S,W,L,L,L,S,L,V,A,V,T,A,A,Q,S,T,I,E,E,Q,A,K,T,F,L,D,K,F,N,H,E,A,E,D,L,F,Y,Q,S,S,L,A,S,W,N,Y,N,T,N,I,T,E,E,N,V,Q,

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1,Q,M,N,D,A,G,E,I,W,S,A,F,Y,N,E,Q,S,K,I,A,Q,S,Y,P,I,Q,E,I,Q,N,S,T,I,K,R,Q,L,Q,A,L,Q,Y,N,G,S,S,V,L,S,E,D,K,R,K,R,L,N,T,I,L,

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3,N,M,N,V,A,G,E,K,W,S,A,F,F,K,E,Q,S,K,L,A,Q,T,Y,P,L,Q,E,I,Q,N,L,T,V,K,L,Q,L,Q,A,L,Q,Q,N,G,S,S,V,L,S,E,D,K,S,K,R,L,N,I,I,I,

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15,N,M,N,N,A,G,E,K,W,S,A,F,L,K,E,Q,S,T,L,A,Q,M,Y,P,L,Q,E,I,Q,N,L,T,V,K,L,Q,L,Q,A,L,Q,Q,N,G,S,S,V,L,S,E,D,K,S,K,R,L,N,T,I,L,

16,N,M,N,N,A,G,E,K,W,S,A,F,L,K,E,Q,S,T,L,A,Q,M,Y,P,L,Q,E,I,Q,N,L,T,V,K,L,Q,L,Q,A,L,Q,Q,N,G,S,S,V,L,S,E,D,K,S,K,R,L,N,T,I,L,

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1,S,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,D,C,L,V,L,T,P,G,L,D,D,I,M,A,Q,S,T,D,Y,S,K,R,L,W,V,W,E,G,W,R,S,E,I,G,K,Q,L,R,P,L,Y,

2,S,T,M,S,T,M,Y,S,T,G,T,V,C,N,P,N,N,P,Q,E,C,L,L,L,E,P,G,L,D,T,I,M,A,N,S,R,D,Y,S,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

3,N,A,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,H,P,Q,E,C,L,L,L,E,P,G,L,N,E,I,M,A,K,S,T,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

4,N,T,M,S,T,I,Y,S,I,G,K,V,C,N,P,N,Y,P,Q,E,C,L,L,L,E,P,G,L,N,E,I,M,A,K,S,T,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,I,G,K,Q,L,R,P,L,Y,

5,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,E,P,G,L,N,E,I,M,A,N,S,L,D,Y,S,E,R,L,W,A,W,E,S,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

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8,N,T,M,S,A,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,E,P,G,L,N,E,I,M,A,N,S,L,D,Y,N,E,R,L,W,A,W,E,S,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

9,N,T,M,S,A,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,E,P,G,L,N,E,I,M,A,N,S,L,D,Y,N,E,R,L,W,A,W,E,S,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

10,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,S,Q,K,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

11,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,S,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

12,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

13,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,S,N,P,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

14,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

15,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

16,N,T,M,S,T,I,Y,S,T,G,K,V,C,N,P,N,N,P,Q,E,C,L,L,L,D,P,G,L,N,E,I,M,E,K,S,L,D,Y,N,E,R,L,W,A,W,E,G,W,R,S,E,V,G,K,Q,L,R,P,L,Y,

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1,E,E,Y,V,D,L,K,N,E,M,A,R,A,N,G,Y,E,D,Y,G,D,Y,W,R,G,D,Y,A,A,E,G,V,D,G,Y,D,Y,N,S,T,Q,L,I,E,D,V,E,H,T,F,E,Q,I,K,P,L,Y,E,Q,L,

2,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,N,Y,E,D,Y,G,D,Y,W,R,A,D,Y,E,A,E,G,E,N,G,Y,N,Y,N,R,S,Q,L,I,E,D,V,E,S,T,F,A,Q,I,K,P,L,Y,E,H,L,

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9,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,E,D,Y,G,D,Y,W,R,G,N,Y,E,V,N,G,V,D,G,Y,D,Y,S,R,G,Q,L,I,E,D,V,E,H,T,F,E,E,I,K,P,L,Y,E,H,L,

10,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,D,Y,E,A,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,H,T,F,E,E,I,K,P,L,Y,E,H,L,

11,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,D,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,H,T,F,E,E,I,K,P,L,Y,E,H,L,

12,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,D,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,R,T,F,E,E,I,K,P,L,Y,E,H,L,

13,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,D,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,R,T,F,E,E,I,K,P,L,Y,E,H,L,

14,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,N,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,R,T,F,E,E,I,K,P,L,Y,E,H,L,

15,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,N,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,R,T,F,E,E,I,K,P,L,Y,E,H,L,

16,E,E,Y,V,V,L,K,N,E,M,A,R,A,N,H,Y,K,D,Y,G,D,Y,W,R,G,D,Y,E,V,N,G,V,D,G,Y,D,Y,N,R,D,Q,L,I,E,D,V,E,R,T,F,E,E,I,K,P,L,Y,E,H,L,

\*\*\*\* \*\*\*\*\*\*\*\*\* \*:\*\*\*\*\*\*\*.:\* .:\* :.\*:\* \*\*\*\*\*\*\* \*\* :\*\*\*\*\*\*:\*

1,H,A,Y,V,R,-,-,G,K,L,M,N,A,Y,P,S,R,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,E,Q,K,P,N,I,D,V,T,E,T,M,V,

2,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,H,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,E,Q,K,P,N,I,D,V,T,D,A,M,V,

3,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,Y,G,Q,K,P,N,I,D,V,T,D,E,M,V,

4,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,E,M,V,

5,H,A,Y,V,R,-,-,A,K,L,I,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

6,H,A,Y,V,R,-,-,A,K,L,I,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

7,H,A,Y,V,R,-,-,M,A,K,L,M,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

8,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

9,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,I,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

10,H,A,Y,V,R,A,K,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

11,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

12,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

13,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

14,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

15,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

16,H,A,Y,V,R,-,-,A,K,L,M,N,A,Y,P,S,Y,I,S,P,T,G,C,L,P,A,H,L,L,G,D,M,W,G,R,F,W,T,N,L,Y,S,L,T,V,P,F,G,Q,K,P,N,I,D,V,T,D,A,M,V,

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1,N,Q,A,W,D,A,Q,K,I,F,R,E,A,E,K,F,F,T,S,V,G,L,P,N,M,T,Q,E,F,W,V,N,S,V,L,T,E,P,K,D,G,R,K,V,S,C,H,P,T,A,W,D,L,G,N,S,D,F,R,I,

2,N,Q,A,W,D,A,K,R,I,F,K,E,A,E,N,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,E,P,E,D,G,R,K,V,I,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

3,N,Q,A,W,D,A,R,R,I,F,K,E,A,E,K,F,F,A,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,E,P,G,D,G,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,Q,D,F,R,I,

4,K,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,A,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,E,P,G,D,G,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,Q,D,F,R,I,

5,D,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

6,D,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,R,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

7,D,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,A,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

8,D,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,A,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

9,D,Q,A,W,D,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,A,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

10,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,I,G,L,P,N,M,T,R,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

11,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,I,G,L,P,N,M,T,R,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

12,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

13,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

14,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

15,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

16,N,Q,A,W,N,A,Q,R,I,F,K,E,A,E,K,F,F,V,S,V,G,L,P,N,M,T,Q,G,F,W,E,N,S,M,L,T,D,P,G,N,V,Q,K,V,V,C,H,P,T,A,W,D,L,G,K,G,D,F,R,I,

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1,L,M,C,T,K,V,T,M,D,Y,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,T,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

2,K,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,I,Q,P,F,L,L,R,D,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

3,L,M,C,T,K,T,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

4,L,M,C,T,K,T,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

5,L,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

6,L,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

7,L,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

8,L,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

9,L,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

10,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

11,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

12,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

13,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

14,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

15,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

16,I,M,C,T,K,V,T,M,D,D,F,L,T,A,H,H,E,M,G,H,I,Q,Y,D,M,A,Y,A,A,Q,P,F,L,L,R,N,G,A,N,E,G,F,H,E,A,V,G,E,I,M,S,L,S,A,A,T,P,K,H,L,

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1,K,S,I,G,L,L,P,L,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,E,Q,W,M,Q,K,W,W,

2,K,S,I,G,L,L,P,P,D,F,E,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

3,K,S,I,G,L,L,S,P,D,F,Q,E,D,S,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,M,G,E,I,P,K,E,Q,W,M,K,K,W,W,

4,K,S,I,G,L,L,S,P,D,F,Q,E,D,S,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,E,Q,W,M,K,K,W,W,

5,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

6,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

7,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

8,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,E,D,Q,W,M,K,K,W,W,

9,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

10,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

11,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,M,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

12,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

13,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

14,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

15,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

16,K,S,I,G,L,L,S,P,D,F,Q,E,D,N,E,T,E,I,N,F,L,L,K,Q,A,L,T,I,V,G,T,L,P,F,T,Y,M,L,E,K,W,R,W,M,V,F,K,G,E,I,P,K,D,Q,W,M,K,K,W,W,

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1,E,M,K,R,E,I,V,G,V,V,E,P,L,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,I,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

2,E,M,K,R,E,I,V,G,V,V,E,P,L,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,I,Y,Q,F,Q,F,Q,E,A,L,C,Q,V,A,K,H,E,G,P,

3,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

4,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

5,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

6,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

7,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

8,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

9,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

10,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,H,E,A,L,C,Q,A,A,K,H,E,G,P,

11,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,H,E,A,L,C,Q,A,A,K,H,E,G,P,

12,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

13,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

14,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

15,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

16,E,M,K,R,E,I,V,G,V,V,E,P,V,P,H,D,E,T,Y,C,D,P,A,S,L,F,H,V,S,N,D,Y,S,F,I,R,Y,Y,T,R,T,L,Y,Q,F,Q,F,Q,E,A,L,C,Q,A,A,K,H,E,G,P,

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1,L,H,K,C,D,I,S,N,S,V,E,A,G,Q,K,L,F,Q,M,L,R,L,G,K,S,E,P,W,T,L,A,L,K,N,I,V,G,E,K,N,M,N,V,R,P,L,L,S,Y,F,E,P,L,L,T,W,L,K,D,Q,

2,L,H,R,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,S,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,R,N,M,D,V,T,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

3,L,H,K,C,D,I,S,S,S,T,E,A,G,Q,K,L,L,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,D,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

4,L,H,K,C,D,I,S,S,S,T,E,A,G,Q,K,L,L,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,D,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

5,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

6,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,D,Y,F,E,P,L,F,T,W,L,K,D,Q,

7,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,F,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

8,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,F,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

9,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,F,N,M,L,R,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

10,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

11,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

12,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

13,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

14,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

15,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

16,L,H,K,C,D,I,S,N,S,T,E,A,G,Q,K,L,L,N,M,L,K,L,G,K,S,E,P,W,T,L,A,L,E,N,V,V,G,A,K,N,M,N,V,R,P,L,L,N,Y,F,E,P,L,F,T,W,L,K,D,Q,

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1,N,K,N,S,F,V,G,W,T,T,D,W,S,P,Y,A,D,E,S,I,K,V,R,I,S,L,K,S,A,L,G,E,N,A,Y,T,W,N,D,N,E,M,Y,F,F,Q,S,S,V,A,Y,A,M,R,K,Y,F,L,V,V,

2,N,R,N,S,F,V,G,W,N,T,N,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,F,L,F,R,S,S,V,A,Y,A,M,R,E,Y,F,L,K,V,

3,N,K,N,S,F,V,G,W,I,T,N,W,S,P,Y,T,D,Q,R,I,K,V,R,I,S,L,K,S,A,L,G,D,Q,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,K,Y,F,L,K,V,

4,N,K,N,S,F,V,G,W,S,T,S,W,S,P,Y,T,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,Q,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,I,A,Y,A,M,R,E,Y,F,F,K,V,

5,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,E,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,L,R,K,Y,F,L,K,V,

6,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,N,K,A,Y,E,W,N,D,N,E,I,Y,L,F,R,S,S,V,A,Y,A,M,R,K,Y,F,L,E,V,

7,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,Q,Y,F,L,K,V,

8,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,Q,Y,F,L,K,V,

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10,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,K,Y,F,L,E,I,

11,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,K,Y,F,L,E,I,

12,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,A,N,A,Y,K,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,Q,Y,F,L,E,N,

13,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,T,Y,F,L,E,I,

14,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,T,Y,F,L,E,I,

15,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,T,Y,F,L,E,I,

16,N,K,N,S,F,V,G,W,S,T,D,W,S,P,Y,A,D,Q,S,I,K,V,R,I,S,L,K,S,A,L,G,D,K,A,Y,E,W,N,D,N,E,M,Y,L,F,R,S,S,V,A,Y,A,M,R,T,Y,F,L,E,I,

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1,K,N,Q,M,M,P,F,G,V,E,N,V,W,I,S,D,L,K,P,R,V,S,F,N,F,F,V,T,S,P,K,N,L,N,D,I,I,P,R,T,E,V,E,E,A,I,R,M,S,R,G,R,I,N,N,A,F,H,L,D,

2,K,N,Q,T,V,L,F,G,V,E,D,V,W,V,N,D,L,K,P,R,I,S,F,T,F,F,V,T,A,P,N,N,V,S,D,I,I,P,R,A,E,V,E,E,A,I,R,K,S,R,S,R,I,N,D,A,F,G,L,D,

3,K,N,Q,T,I,P,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,F,V,T,A,P,Q,N,V,S,D,I,I,P,R,I,E,V,E,E,A,I,R,M,S,R,S,R,I,N,D,A,F,H,L,N,

4,K,N,Q,T,I,P,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,F,V,T,A,P,Q,N,V,S,D,I,I,P,R,I,E,V,E,E,A,I,R,M,S,R,S,R,I,N,D,A,F,R,L,N,

5,K,N,Q,M,I,L,F,G,E,E,D,V,R,V,A,N,L,K,P,R,I,S,F,N,F,F,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,K,A,I,R,M,S,R,S,R,I,N,D,A,F,R,L,N,

6,K,N,Q,M,I,L,F,G,E,E,D,V,R,V,A,N,L,K,P,R,I,S,F,N,F,F,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,K,A,I,R,M,S,R,S,R,I,N,D,A,F,R,L,N,

7,K,N,Q,M,I,L,F,G,E,E,D,V,R,V,A,N,L,K,P,R,I,S,F,N,F,F,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,K,A,I,R,M,S,R,S,R,I,N,D,A,F,R,L,N,

8,K,N,Q,M,I,L,F,G,E,E,D,V,R,V,A,N,L,K,P,R,I,S,F,N,F,F,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,K,A,I,R,K,S,R,S,R,I,N,D,A,F,R,L,N,

9,K,N,Q,M,I,L,F,G,E,E,D,V,R,V,A,N,L,K,P,R,I,S,F,N,F,F,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,K,A,I,R,K,S,R,S,R,I,N,D,A,F,R,L,N,

10,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

11,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,F,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

12,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,F,S,R,S,R,I,N,D,A,F,Q,L,N,

13,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

14,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

15,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

16,K,H,Q,T,I,L,F,G,E,E,D,V,R,V,A,D,L,K,P,R,I,S,F,N,F,Y,V,T,A,P,K,N,V,S,D,I,I,P,R,T,E,V,E,E,A,I,R,I,S,R,S,R,I,N,D,A,F,R,L,N,

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1,D,N,T,L,E,F,L,G,I,Q,P,T,L,A,P,P,S,Q,P,P,I,T,I,W,L,I,V,F,G,V,V,M,G,V,V,V,V,G,I,F,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

2,D,N,T,L,E,F,L,G,I,Q,P,T,L,S,A,P,Y,Q,S,S,V,A,T,W,L,I,A,F,G,V,V,M,G,L,V,V,V,A,T,V,V,L,I,F,T,G,I,R,N,R,K,K,K,N,Q,E,R,S,E,E,

3,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,Y,Q,P,P,V,T,I,W,L,I,V,F,G,V,V,M,G,M,V,A,V,G,I,V,I,L,I,I,T,G,I,R,D,R,K,K,K,N,E,A,R,S,E,E,

4,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,Y,Q,S,P,V,T,I,W,L,I,V,F,G,V,V,M,G,M,V,V,V,G,I,V,I,L,I,I,T,G,I,R,D,R,K,K,K,N,E,A,R,S,E,E,

5,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,N,Q,P,T,V,T,I,W,L,I,V,F,G,V,V,T,G,V,I,V,V,G,I,V,I,L,I,F,T,G,I,R,D,R,K,K,K,N,K,A,R,S,E,E,

6,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,N,Q,P,P,V,S,I,W,L,I,V,F,G,V,V,M,G,V,I,V,V,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,K,A,R,N,E,E,

7,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,N,Q,P,P,V,S,I,W,L,I,V,F,G,V,V,M,G,V,I,V,V,G,I,V,I,L,I,F,T,G,I,R,D,R,K,K,K,N,K,A,R,S,G,E,

8,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,N,Q,P,P,V,S,I,W,L,I,V,F,G,V,V,M,G,V,I,V,V,G,I,V,I,L,I,F,T,G,I,R,D,R,K,K,K,N,K,A,R,S,E,E,

9,D,N,S,L,E,F,L,G,I,Q,P,T,L,G,P,P,N,Q,P,P,V,S,I,W,L,I,V,F,G,V,V,M,G,V,I,V,V,G,I,V,I,L,I,F,T,G,I,R,D,R,K,K,K,N,K,A,R,S,E,E,

10,D,N,S,L,E,F,L,G,I,Q,P,T,L,A,P,P,Y,Q,P,P,V,T,I,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

11,D,N,S,L,E,F,L,G,I,Q,P,T,L,A,P,P,Y,Q,P,P,V,T,I,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

12,D,N,S,L,E,F,L,G,I,Q,S,T,L,I,P,P,Y,Q,S,P,V,T,T,W,L,I,V,F,G,V,V,M,A,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

13,D,N,S,L,E,F,L,G,I,E,P,T,L,A,P,P,Y,Q,S,P,V,T,T,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

14,D,N,S,L,E,F,L,G,I,Q,T,T,L,A,P,P,Y,Q,S,P,V,T,T,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

15,D,N,S,L,E,F,L,G,I,Q,T,T,L,A,P,P,Y,Q,S,P,V,T,T,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

16,D,N,S,L,E,F,L,G,I,Q,T,T,L,A,P,P,Y,Q,S,P,V,T,T,W,L,I,V,F,G,V,V,M,G,V,I,V,A,G,I,V,V,L,I,F,T,G,I,R,D,R,K,K,K,N,Q,A,R,S,E,E,

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1,N,P,Y,A,S,V,D,S,G,K,G,E,N,N,P,G,F,Q,S,S,D,D,G,Q,T,S,F,

2,N,P,Y,A,F,V,D,V,N,R,G,E,H,N,P,G,F,Q,N,S,D,D,I,Q,T,S,F,

3,N,P,Y,A,S,I,D,I,G,K,G,E,D,N,P,G,F,Q,N,S,D,E,V,Q,T,S,F,

4,N,P,Y,A,D,I,D,I,D,K,G,E,D,N,P,G,F,E,N,S,D,E,V,Q,T,S,F,

5,N,P,Y,A,S,V,D,I,S,K,G,E,N,N,P,G,F,E,N,T,D,D,V,Q,T,S,F,

6,N,P,Y,A,S,I,D,I,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

7,N,P,Y,A,S,I,D,I,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

8,N,P,Y,A,S,V,D,T,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

9N,P,Y,A,S,V,D,T,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

10,N,P,Y,A,S,I,D,I,S,Q,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

11,N,P,Y,A,S,I,D,I,S,Q,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

12,N,P,Y,A,S,I,D,I,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

13,N,P,Y,A,S,I,D,I,S,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

14,N,P,Y,A,S,I,D,I,N,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

15,N,P,Y,A,S,I,D,I,N,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

16,N,P,Y,A,S,I,D,I,N,K,G,E,N,N,P,G,F,Q,N,T,D,D,V,Q,T,S,F,

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