```
N = 238 = 2*7*17

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(238))) = 134

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(238))^+ is 39
 the nonlift dimension of S_4(K(238))^+ is heuristically 75
 dim(S_4(K(238))^+) thus is heuristically 114
 dim(S_4(K(238))^-) is heuristically 20

dim(J_{2,238}^{cusp}) = 2 (Skoruppa-Zagier), so need to span to within 1 dimension

q = 3 for TraceDown
After TD(Grit(J_{4,714}^{cusp})) and (Grit(J_{2,238}^{cusp}))^2,
 spanned rank in S_4(K(238))^+ is 85
 spanned rank in S_4(K(238))^- is 0

Hecke operators applied: {{{2, 2}}, {{2, 2}, {2, 1}}, {{2, 2}, {3, 1}}}
After Hecke spreading,
 spanned rank in S_4(K(238))^+ is 89
 spanned rank in S_4(K(238))^- is 5

Merged in the plus basis attempt for
 q=5, raising the spanned rank in S_4(K(238))^+ to 113

After Borcherds products,
 spanned rank in S_4(K(238))^- is 20

Final spanned rank in S_4(K(238))^+ is 113
Final spanned rank in S_4(K(238))^- is 20

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S_2(K(238))^+ is determined by Jacobi restriction and the H4Nd1(2,+) test
 (dim(H_4(238,2,1)^+) <= 1 and this is less than dim(J_{2,238}^{cusp})+1 = 3)
S_2(K(238))^- = 0 by Jacobi restriction and the H4Nd1(1,-) test
 (dim(H_4(238,1,1)^-) <= 1 and this is less than dim(J_{2,238}^{cusp}) = 2)

So S_2(K(238)) = Grit(J_{2,238}^{cusp}) (dimension 2)
```