```
N = 170 = 2 * 5 * 17
By the Ibukiyama-Kitayama dimension formula,
dim(S_4(K(170))) = 70
By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S 4(K(170))^+ is 28
 the nonlift dimension of S_4(K(170))^+ is heuristically 31
 dim(S_4(K(170))^+) thus is heuristically 59
 dim(S_4(K(170))^-) is heuristically 11
The heuristic dimensions are correct by the spanning results to follow
\dim(J_{2,170}^{cusp}) = 3 (Skoruppa-Zagier), so need to span to within 2 dimensions
q = 7 for TraceDown
After TD(Grit(J_{4,1190}^{cusp})) and (Grit(J_{2,170}^{cusp}))^2,
 spanned rank in S_4(K(170))^+ is 59
 spanned rank in S_4(K(170))^- is 0
Hecke operators applied: \{\{\{2, 2\}\}, \{\{2, 2\}, \{2, 1\}\}, \{\{2, 2\}, \{3, 1\}\}\}\}
After Hecke spreading,
 spanned rank in S_4(K(170))^- is 9
After Borcherds products,
 spanned rank in S_4(K(170))^- is 11
```

Final spanned rank in $S_4(K(170))^+$ is 59

So $S_2(K(170)) = Grit(J_{2,170})^{cusp}$ (dimension 3)