$$c_{e_{1}}^{\mathbf{S}_{3}} = 4$$

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$$c_{e_{3}}^{\mathbf{S}_{3}} = 2 c_{e_{5}}^{\mathbf{S}_{3}} = 9 c_{e_{7}}^{\mathbf{S}_{3}} = 9$$

$$c_{e_{9}}^{\mathbf{S}_{3}} = 8$$

$$c_{e_{9}}^{\mathbf{S}_{3}} = 8$$

$$c_{e_{9}}^{\mathbf{S}_{3}} = 5 - 5$$