Problem. Make sense of the paragraph below and add enough details to make it intelligible.
If $p$ is a prime, $G=D_{2 p}$ is the dihedral group with $2 p$ elements, $Z$ is the knot invariant associated with $W G$, and $K$ is a knot with $n$ crossings, then $Z(K)$ is computable in time polynomial in $n$. Indeed only one of the conjugacy classes of $G$ is interesting (call it $C$ ), and finding homomorphisms $\pi_{1}(K) \rightarrow G$ that map meridians to $C$ amounts to solving systems of linear equations over the field $\mathbb{Z} / p$.
(In particular, we made fools of ourselves in class struggling to compute $Z$ for $G=S_{3}=D_{6}$ ).

