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| --- | --- | --- | --- |
|  | Loop invariant instuction | To preheader? | Justification |
| S2 | y=5 | No | Variable assigned elsewhere in loop |
| S3 | q=7 | Yes | All requirements fulfilled |
| S5 | h=3 | No | Does not dominate exit |
| S6 | x=1 | No | Does not dominate exit |
| S8 | h=4 | No | Does not dominate all blocks in the loop that used the variable assigned. |
| S9 | x=1 | No |
| S10 | m=y+7 | No | Does not dominate exit |
| S12 | y=7 | No | Does not dominate exit |
| S13 | r=q+5 | No | Does not dominate exit |