

x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9	x_{10}	x_{11}	x_{12}	x_{13}	x_{14}	x_{15}	x_{16}	x_{17}	x_{18}	x_{19}	x_{20}	x_{21}	x_{22}	x_{23}	x_{24}	x_{25}	x_{26}	x_{27}	x_{28}	x_{29}	x_{30}	x_{31}	x_{32}	x_{33}	x_{34}	x_{35}	x_{36}	x_{37}	x_{38}	x_{39}	x_{40}	x_{41}	x_{42}	x_{43}	x_{44}	x_{45}	x_{46}	x_{47}	x_{48}	x_{49}	x_{50}	x_{51}	x_{52}	x_{53}	x_{54}	x_{55}	x_{56}	x_{57}	x_{58}	x_{59}	x_{60}	x_{61}	x_{62}	x_{63}	x_{64}	x_{65}	x_{66}	x_{67}	x_{68}	x_{69}	x_{70}	x_{71}	x_{72}	x_{73}	x_{74}	x_{75}	x_{76}	x_{77}	x_{78}	x_{79}	x_{80}	x_{81}	x_{82}	x_{83}	x_{84}	x_{85}	x_{86}	x_{87}	x_{88}	x_{89}	x_{90}	x_{91}	x_{92}	x_{93}	x_{94}	x_{95}	x_{96}	x_{97}	x_{98}	x_{99}	x_{100}	x_{101}	x_{102}	x_{103}	x_{104}	x_{105}	x_{106}	x_{107}	x_{108}	x_{109}	x_{110}	x_{111}	x_{112}	x_{113}	x_{114}	x_{115}	x_{116}	x_{117}	x_{118}	x_{119}	x_{120}	x_{121}	x_{122}	x_{123}	x_{124}	x_{125}	x_{126}	x_{127}	x_{128}	x_{129}	x_{130}	x_{131}	x_{132}	x_{133}	x_{134}	x_{135}	x_{136}	x_{137}	x_{138}	x_{139}	x_{140}	x_{141}	x_{142}	x_{143}	x_{144}	x_{145}	x_{146}	x_{147}	x_{148}	x_{149}	x_{150}	x_{151}	x_{152}	x_{153}	x_{154}	x_{155}	x_{156}	x_{157}	x_{158}	x_{159}	x_{160}	x_{161}	x_{162}	x_{163}	x_{164}	x_{165}	x_{166}	x_{167}	x_{168}	x_{169}	x_{170}	x_{171}	x_{172}	x_{173}	x_{174}	x_{175}	x_{176}	x_{177}	x_{178}	x_{179}	x_{180}	x_{181}	x_{182}	x_{183}	x_{184}	x_{185}	x_{186}	x_{187}	x_{188}	x_{189}	x_{190}	x_{191}	x_{192}	x_{193}	x_{194}	x_{195}	x_{196}	x_{197}	x_{198}	x_{199}	x_{200}	x_{201}	x_{202}	x_{203}	x_{204}	x_{205}	x_{206}	x_{207}	x_{208}	x_{209}	x_{210}	x_{211}	x_{212}	x_{213}	x_{214}	x_{215}	x_{216}	x_{217}	x_{218}	x_{219}	x_{220}	x_{221}	x_{222}	x_{223}	x_{224}	x_{225}	x_{226}	x_{227}	x_{228}	x_{229}	x_{230}	x_{231}	x_{232}	x_{233}	x_{234}	x_{235}	x_{236}	x_{237}	x_{238}	x_{239}	x_{240}	x_{241}	x_{242}	x_{243}	x_{244}	x_{245}	x_{246}	x_{247}	x_{248}	x_{249}	x_{250}	x_{251}	x_{252}	x_{253}	x_{254}	x_{255}	x_{256}	x_{257}	x_{258}	x_{259}	x_{260}	x_{261}	x_{262}	x_{263}	x_{264}	x_{265}	x_{266}	x_{267}	x_{268}	x_{269}	x_{270}	x_{271}	x_{272}	x_{273}	x_{274}	x_{275}	x_{276}	x_{277}	x_{278}	x_{279}	x_{280}	x_{281}	x_{282}	x_{283}	x_{284}	x_{285}	x_{286}	x_{287}	x_{288}	x_{289}	x_{290}	x_{291}	x_{292}	x_{293}	x_{294}	x_{295}	x_{296}	x_{297}	x_{298}	x_{299}	x_{300}	x_{301}	x_{302}	x_{303}	x_{304}	x_{305}	x_{306}	x_{307}	x_{308}	x_{309}	x_{310}	x_{311}	x_{312}	x_{313}	x_{314}	x_{315}	x_{316}	x_{317}	x_{318}	x_{319}	x_{320}	x_{321}	x_{322}	x_{323}	x_{324}	x_{325}	x_{326}	x_{327}	x_{328}	x_{329}	x_{330}	x_{331}	x_{332}	x_{333}	x_{334}	x_{335}	x_{336}	x_{337}	x_{338}	x_{339}	x_{340}	x_{341}	x_{342}	x_{343}	x_{344}	x_{345}	x_{346}	x_{347}	x_{348}	x_{349}	x_{350}	x_{351}	x_{352}	x_{353}	x_{354}	x_{355}	x_{356}	x_{357}	x_{358}	x_{359}	x_{360}	x_{361}	x_{362}	x_{363}	x_{364}	x_{365}	x_{366}	x_{367}	x_{368}	x_{369}	x_{370}	x_{371}	x_{372}	x_{373}	x_{374}	x_{375}	x_{376}	x_{377}	x_{378}	x_{379}	x_{380}	x_{381}	x_{382}	x_{383}	x_{384}	x_{385}	x_{386}	x_{387}	x_{388}	x_{389}	x_{390}	x_{391}	x_{392}	x_{393}	x_{394}	x_{395}	x_{396}	x_{397}	x_{398}	x_{399}	x_{400}	x_{401}	x_{402}	x_{403}	x_{404}	x_{405}	x_{406}	x_{407}	x_{408}	x_{409}	x_{410}	x_{411}	x_{412}	x_{413}	x_{414}	x_{415}	x_{416}	x_{417}	x_{418}	x_{419}	x_{420}	x_{421}	x_{422}	x_{423}	x_{424}	x_{425}	x_{426}	x_{427}	x_{428}	x_{429}	x_{430}	x_{431}	x_{432}	x_{433}	x_{434}	x_{435}	x_{436}	x_{437}	x_{438}	x_{439}	x_{440}	x_{441}	x_{442}	x_{443}	x_{444}	x_{445}	x_{446}	x_{447}	x_{448}	x_{449}	x_{450}	x_{451}	x_{452}	x_{453}	x_{454}	x_{455}	x_{456}	x_{457}	x_{458}	x_{459}	x_{460}	x_{461}	x_{462}	x_{463}	x_{464}	x_{465}	x_{466}	x_{467}	x_{468}	x_{469}	x_{470}	x_{471}	x_{472}	x_{473}	x_{474}	x_{475}	x_{476}	x_{477}	x_{478}	x_{479}	x_{480}	x_{481}	x_{482}	x_{483}	x_{484}	x_{485}	x_{486}	x_{487}	x_{488}	x_{489}	x_{490}	x_{491}	x_{492}	x_{493}	x_{494}	x_{495}	x_{496}	x_{497}	x_{498}	x_{499}	x_{500}	x_{501}	x_{502}	x_{503}	x_{504}	x_{505}	x_{506}	x_{507}	x_{508}	x_{509}	x_{510}	x_{511}	x_{512}	x_{513}	x_{514}	x_{515}	x_{516}	x_{517}	x_{518}	x_{519}	x_{520}	x_{521}	x_{522}	x_{523}	x_{524}	x_{525}	x_{526}	x_{527}	x_{528}	x_{529}	x_{530}	x_{531}	x_{532}	x_{533}	x_{534}	x_{535}	x_{536}	x_{537}	x_{538}	x_{539}	x_{540}	x_{541}	x_{542}	x_{543}	x_{544}	x_{545}	x_{546}	x_{547}	x_{548}	x_{549}	x_{550}	x_{551}	x_{552}	x_{553}	x_{554}	x_{555}	x_{556}	x_{557}	x_{558}	x_{559}	x_{560}	x_{561}	x_{562}	x_{563}	x_{564}	x_{565}	x_{566}	x_{567}	x_{568}	x_{569}	x_{570}	x_{571}	x_{572}	x_{573}	x_{574}	x_{575}	x_{576}	x_{577}	x_{578}	x_{579}	x_{580}	x_{581}	x_{582}	x_{583}	x_{584}	x_{585}	x_{586}	x_{587}	x_{588}	x_{589}	x_{590}	x_{591}	x_{592}	x_{593}	x_{594}	x_{595}	x_{596}	x_{597}	x_{598}	x_{599}	x_{600}	x_{601}	x_{602}	x_{603}	x_{604}	x_{605}	x_{606}	x_{607}	x_{608}	x_{609}	x_{610}	x_{611}	x_{612}	x_{613}	x_{614}	x_{615}	x_{616}	x_{617}	x_{618}	x_{619}	x_{620}	x_{621}	x_{622}	x_{623}	x_{624}	x_{625}	x_{626}	x_{627}	x_{628}	x_{629}	x_{630}	x_{631}	x_{632}	x_{633}	x_{634}	x_{635}	x_{636}	x_{637}	x_{638}	x_{639}	x_{640}	x_{6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$$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} +$$
$$P_3 = \text{Group}([(9, 11)(10, 12), (9, 10, 11, 12)]) \cong C_4$$
$$P_3 = \text{Group}([(9, 11)(10, 12), (9, 10, 11, 12), (1, 2)]) \cong C4 \times C2$$
$$N_2 = \text{Group}([(1, 2), (3, 4, 5), (6, 7, 8), (9, 10, 11, 12)]) \cong \text{Cl2} \times \text{C6}$$
$$N_5 = \text{Group}([(1, 2), (3, 4, 5), (6, 7, 8), (9, 10, 11, 12)]) \cong C12 \times C6$$
$$N_5 = \text{Group}([(1, 2), (3, 4, 5), (6, 7, 8), (9, 10, 11, 12)]) \cong C_{12} \times C_6$$