\*\*\*\*\* 40 25 \*\*\*

battery\_charged [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

\*\*\*\*\* 80 25 \*\*\*

battery\_charged [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

\*\*\*\*\* 120 25 \*\*\*

battery\_charged [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

\*\*\*\*\* 160 25 \*\*\*

battery\_charged [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

\*\*\*\*\* 200 25 \*\*\*

battery\_charged [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

\*\*\*\*\* 40 50 \*\*\*

battery\_charged [10.318418978011213, 11.091237266003997, 0, 6.206455991694216, 11.33030134694786, 7.248592281058482, 7.762537840348914, 11.251855230980707, 0, 10.315060570243574, 8.010151940523016, 10.359897448036916, 0, 10.343077970187867, 2.5485771003121074, 10.852065002063828, 9.228021953027639, 7.230181506680508, 8.139116674484512, 11.335577322037372]

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battery\_charged [8.786891088860052, 9.447253142566408, 0, 5.117353689752016, 9.706706870603115, 5.940283077807462, 6.458040474408056, 9.594412696080038, 0, 8.740924922056289, 6.64148141962618, 8.827426298793826, 0, 8.815324090339498, 1.8308551571833573, 9.277630830858199, 7.841384724608368, 5.87081512494578, 6.763150204553881, 9.714149118220815, 0, 4.269312146908408, 0, 11.776740718623891, 6.2924346256045, 6.820342492629145, 5.833500698002985, 6.516921989400478, 9.282360061983708, 0, 9.926179025929764, 8.631129130270537, 6.289585044482708, 9.809259459627533, 1.8615628319843036, 9.380865525058129, 12.453147792230558, 8.219133516078054, 11.078600707675998, 5.1343361870128685]

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battery\_charged [9.692707113564971, 10.432994384218674, 0, 5.754466928246194, 10.660565282785045, 6.743788476398497, 7.228387246476093, 10.57135928837473, 0, 9.685256473946884, 7.460989490542335, 9.739007878177741, 0, 9.723627259793027, 2.1924036849011284, 10.208591282043932, 8.666587786071398, 6.699857156626619, 7.61399034758062, 10.667704545015878, 0, 5.246385233460338, 0, 12.892721171255697, 6.984794973217431, 7.665673189052673, 6.622359109501599, 7.268489354614568, 10.249552319648213, 0, 10.897111230172458, 9.563578745032244, 7.107816889385829, 10.76728774553565, 2.510948229694788, 10.331803760815431, 13.58791081705664, 9.123608719969717, 12.172100256601702, 5.831373324566044, 7.6001644546592475, 13.682687962794102, 5.608247485425224, 0, 9.538951132347863, 8.760486215774826, 7.715587561331058, 0, 10.43987875186886, 10.422011652350974, 6.424014734686535, 9.69661745315857, 7.866231754045516, 0, 8.71394349219121, 0, 12.066653894693589, 7.5115471969916445, 8.053695627120394, 12.003561290782065]

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battery\_charged [9.50515550520634, 10.235353158898794, 0, 5.661350463342137, 10.4510421267976, 6.621179854533105, 7.091028172901127, 10.354899380995214, 0, 9.494972941505885, 7.3169962801276665, 9.544327187944678, 0, 9.528993864456814, 2.1924822133759623, 10.007667406039078, 8.509926722529757, 6.569195815219066, 7.468053598592571, 10.457214616145619, 0, 5.266114604349554, 0, 12.63363650967913, 6.846765160862245, 7.518850631778547, 6.502294501589874, 7.131874373975157, 10.039662222247898, 0, 10.676060857344329, 9.371735278853832, 6.985681933731789, 10.551276976229701, 2.58456174879935, 10.119611265886771, 13.309209705504518, 8.945493238057086, 11.927477502184505, 5.716162066107355, 7.4698211523767455, 13.400950695674151, 5.520178104169745, 0, 9.3518821054286, 8.600080898645837, 7.568567437742718, 0, 10.231406631396217, 10.21420298007133, 6.298432572854363, 9.508496930877458, 7.715782939207626, 0, 8.55594899810098, 0, 11.824615726423497, 7.371024571446359, 7.89975601928645, 11.757759987192482, 0, 6.317022486438865, 2.4953282216609662, 7.892909049937483, 6.451400784336726, 12.541735607634063, 7.126305495779866, 0, 9.12541219096418, 9.307790773118668, 5.006559407235827, 6.885657839753459, 3.3254034677680444, 3.0222845043995945, 7.469109595505791, 6.191279394594331, 7.3421874088820225, 0, 3.551108810223695, 0]

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battery\_charged [9.971875480433566, 10.73805529356499, 0, 5.9849524625388435, 10.938961614107095, 7.00375600905265, 7.4836834446659894, 10.8522407583689, 0, 9.963703548491234, 7.724771863395022, 10.013283778322903, 0, 9.99652835541064, 2.37568123498397, 10.489332108922786, 8.930446415849698, 6.986282042320438, 7.8746126113434505, 10.954444069137514, 0, 5.693004482085596, 0, 13.21321404963711, 7.205809963463833, 7.937806914259612, 6.885788468673673, 7.513695368694066, 10.527430849553014, 0, 11.167787895626951, 9.8332815244594, 7.384816908234438, 11.036749895109152, 2.9036491813174194, 10.600576380851452, 13.898147867040212, 9.406501588893251, 12.480870794852184, 6.076196780371965, 7.870062078545102, 13.994389812296646, 5.837722500604974, 0, 9.804762740212817, 9.03699001984326, 7.987704503106089, 0, 10.726007165671456, 10.709925638626816, 6.711230928023985, 9.97223827335452, 8.138463477763432, 0, 8.978004029776757, 0, 12.382748564845842, 7.771274542135867, 8.32972596154682, 12.300813959565994, 0, 6.697776380527856, 2.6933757183073155, 8.309049373993739, 6.827242691706589, 13.118021198000164, 7.509364579515962, 0, 9.57006629186708, 9.768514797339957, 5.316529190864551, 7.246559374051472, 3.6258443530170843, 3.3133093366807267, 7.835524205156355, 6.5681237608530605, 7.745782279742233, 0, 3.820071034219063, 0, 7.340716313910645, 11.810634993544049, 7.882851601116088, 0, 8.755603825982782, 8.869578919734044, 10.32768056583769, 12.888909819744606, 6.697178226940937, 11.907800066061842, 8.536833538849857, 7.090520649534432, 13.150175252749005, 1.6432502803285718, 9.078788323276457, 7.529027561921691, 0, 0, 2.8776324190003812, 4.437101043416721]

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battery\_charged [17.607838261025268, 18.04274140932408, 2.652484412148694, 11.642758777042355, 18.34501584389198, 14.035883889681648, 14.292893374486603, 17.3890797840998, 0, 17.04063139045156, 14.768005775258464, 17.69042456756307, 2.79656849224706, 17.624166385285523, 6.626712540508371, 18.247362850959178, 15.678756457549882, 14.103175389625454, 14.590707900238558, 18.349470000104073, 2.623297181997775, 12.246204945441587, 0, 18.90520866606908, 13.194679481241273, 14.789774753294278, 13.857499329082604, 14.197417013596407, 17.31924645319276, 0]

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battery\_charged [17.86621602592298, 18.12109553948295, 3.2050083119415747, 12.216744528333491, 18.423568550033632, 14.81227337979594, 15.010269584778838, 17.452109060029425, 0, 17.144848515534353, 15.52427637328436, 17.918408625451804, 3.3763212385136367, 17.89565520685325, 7.014240663203843, 18.420707711784573, 16.363337919583287, 14.861762007323934, 15.084286733235706, 18.428062622789525, 3.0501060772834423, 12.96250542783384, 0, 18.966621854668315, 13.817760792862652, 15.391705139504877, 14.623730302087916, 14.892298335370482, 17.378203255727993, 0, 18.49253298976815, 17.39632725162704, 15.168045733744236, 18.46423970000494, 8.787755869075946, 17.92670328161409, 19.169103534905847, 17.27022141980435, 18.22165455880432, 13.108852467323961, 15.568627649578673, 19.15438227111574, 12.292531881678855, 3.4944076314836723, 17.938776456347203, 17.090905007457938, 16.048030749959274, 3.468266405153806, 17.427596697867926, 17.52987370735698, 14.5520683900599, 17.84974302261695, 16.239181673031567, 4.0050518236732815, 16.377615849015793, 3.4543037946074135, 18.304877357546335, 15.522791176809738, 16.425953638130096, 18.26914745172392]

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battery\_charged [17.93172694011448, 18.1879292468422, 3.2959651615132293, 12.33557147388247, 18.490454109044904, 14.887191810987847, 15.141429149417903, 17.522250072927854, 0, 17.208102329291773, 15.662953962711207, 17.986025575439445, 3.4739878487406504, 17.963263625125524, 7.086948291560497, 18.488068158967735, 16.49495346271755, 15.024716880010452, 15.1204629298403, 18.49498578819116, 3.1334832501028393, 13.13349933702527, 0, 19.038763379502353, 13.931960753046777, 15.42880560088682, 14.764149114539897, 15.036835579188265, 17.44820500920124, 0, 18.559654128511077, 17.46331561670067, 15.317798943370473, 18.53130580654597, 8.89115798828633, 17.99422480525943, 19.241566875732275, 17.329881728894062, 18.28845194470453, 13.244907665476788, 15.699317140785217, 19.226828636449216, 12.398153014471088, 3.590544598096872, 18.083961475051076, 17.252651738675183, 16.208085459848334, 3.558525535622247, 17.49372685014712, 17.600052000644965, 14.715015852953542, 17.915217610175702, 16.400303651381986, 4.094680009851569, 16.509080286975294, 3.551466037625181, 18.375673759065084, 15.676386342390593, 16.491010538562616, 18.33984121814086, 2.5240438033326256, 14.55617761898205, 7.33571795099981, 16.36372128578193, 14.725920351919992, 19.035718258065245, 15.045107007739093, 3.3622916725228986, 17.75612429433496, 17.955662712907255, 11.992836429133039, 13.962129970477788, 10.758507473548903, 10.359495011730619, 15.04781244501237, 14.395209919456093, 15.562743917284397, 2.5516897243639227, 9.887333172097795, 0, 14.892806719403719, 18.724913708454093, 15.897617200212268, 3.350179514067754, 16.32645965901594, 16.371738832455684, 17.999293436638123, 18.98723259800641, 14.520907176695937, 18.76041973914305]

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battery\_charged [17.70221480655929, 17.95439546501198, 2.936191523759772, 11.91482123704565, 18.25502869307569, 14.449425763861289, 14.658020189638131, 17.30576542634772, 0, 16.987015294160326, 15.156508557378451, 17.718717733746217, 3.0994345775743755, 17.696132963487074, 6.768260627345028, 18.251765325174215, 16.0120626331713, 14.470792481511532, 14.86458678510495, 18.25941825574172, 2.8167887317091695, 12.62375505630918, 0, 18.814577202629756, 13.504935548354565, 15.168080632427168, 14.265419961713617, 14.53717011107978, 17.238179197651274, 0, 18.323377133110068, 17.201751630495473, 14.796970778799535, 18.295277093094715, 8.526860365752162, 17.762240874163044, 19.0157049943183, 17.033857831053723, 18.05487206860656, 12.772017216454735, 15.197173536145371, 19.00108336230187, 11.977829488502568, 3.218500782713363, 17.55218505288344, 16.685655192199768, 15.661233087785183, 3.1065346579344677, 17.267100704179917, 17.386711147863313, 14.163968226415312, 17.685871352396603, 15.850307849699975, 3.7590018954856275, 16.026646672955998, 3.1771176285774274, 18.147156062699086, 15.148455722140842, 16.14147629166004, 18.10982167342327, 2.165639842342892, 14.057524249379616, 7.02702551921647, 15.847498410194898, 14.227651255500582, 18.80792406495257, 14.544488315229186, 2.994873085673581, 17.231589549018086, 17.688393689273006, 11.568534134869704, 13.535125715040376, 10.310655722614591, 9.918342077599267, 14.586744439167868, 13.899473103137396, 15.06835394062443, 2.3238328053408774, 9.510847222446294, 0, 14.41571694155682, 18.486596311923453, 15.386253265002685, 2.91781628315263, 15.84738257424304, 15.8921131487348, 17.769054707363356, 18.74653036712235, 14.025416159833863, 18.521662459068594, 16.377496481466107, 14.53770455742837, 18.781117187223206, 7.562863710053214, 16.75485639096379, 14.529006344539555, 2.4750709938103985, 2.732955751914481, 8.050957046815759, 10.771660860521635, 8.82087214124085, 2.805953695855791, 19.019510275793284, 14.88145941909173, 10.333932151748057, 15.973490912147057, 18.487964906626242, 14.540669216966737, 18.30981552037097, 12.398948689582044, 12.6377935472879, 16.53177189580234, 16.021788979454215, 15.099494822475965, 12.592363217479475, 17.262337776792368, 12.95758520069529, 17.746776671233278, 17.47245608571492, 18.312517924981172]

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battery\_charged [17.760962187621466, 18.014263143288513, 3.0350381583811985, 12.037499976736358, 18.31522506645127, 14.599617055001595, 14.796691353828612, 17.36448792785841, 0, 17.043792128824506, 15.305147273026668, 17.788229992374266, 3.204159859049216, 17.765616087472765, 6.85295511852951, 18.312226681413197, 16.152652239553102, 14.644391090390258, 14.934594944818077, 18.319647314567483, 2.914981854046082, 12.80160553415326, 0, 18.869703734348622, 13.62516619237879, 15.23937802807667, 14.413303078609724, 14.686884300953379, 17.291056820128254, 0, 18.38378608693924, 17.270247273261333, 14.956672747376695, 18.355630332429076, 8.633324486411567, 17.82168657234196, 19.071196778221122, 17.115010613322582, 18.1147520705739, 12.911933114152061, 15.342050664344011, 19.056551197279006, 12.09145334863649, 3.321827279765777, 17.706487578786323, 16.858583701398597, 15.829046008151522, 3.23237623292734, 17.32566202887941, 17.441760938433692, 14.337418912175142, 17.74458089529391, 16.019330664560524, 3.863041818181586, 16.167286287329098, 3.281604279592356, 18.207257209787727, 15.308575550900073, 16.30452673768521, 18.169824612967197, 2.264748019220491, 14.205879244700704, 7.118395821986444, 15.996980876868838, 14.376784706079365, 18.86665927831409, 14.694763408181371, 3.096863749647594, 17.383185988837585, 17.75791304335273, 11.683556750263687, 13.655102136429576, 10.44221570678804, 10.047889012568048, 14.713236044108127, 14.047054597752478, 15.21118711464365, 2.375201248074095, 9.61516545355377, 0, 14.55264879855548, 18.547501694201397, 15.536427382153047, 3.0381308245659606, 15.986975977264038, 16.03187288233601, 17.827989315229424, 18.807933652724543, 14.17216230879943, 18.58268071710723, 16.54825327400707, 14.626214841224696, 18.84265722983762, 7.638817365823632, 16.92851712123649, 14.678431791781072, 2.5287496537683776, 2.837635476205902, 8.155280694279075, 10.897050768102048, 8.930000463658802, 2.9261805507103658, 19.0750131617902, 15.009708846427662, 10.457838417943659, 16.02896034165628, 18.548852219035627, 14.679034221958723, 18.370450166335612, 12.532920120521535, 12.802073699141816, 16.700545217391916, 16.19163430064469, 15.244333583225279, 12.769620949801254, 17.32026189268331, 13.097665037292694, 17.81639532350617, 17.62932017243045, 18.373168461533183, 17.227150749474717, 15.240481002704879, 17.841816342769373, 17.681014408952812, 18.554331325358316, 12.70458823928623, 18.3745772545651, 16.396884674533368, 18.603873510887766, 2.749154003418958, 14.828663000296718, 16.421455490787544, 13.02562280528033, 14.339767439278122, 15.667002412535728, 9.293876644741847, 18.09427178788584, 16.557116676838962, 9.5842136820028, 15.630775304835876, 6.966090989788218, 0, 14.094252676656025, 0, 15.122495946975873, 14.553657650067874, 18.864841821243843, 17.839280996841005, 16.051657474871448, 11.467721471996313]

Finished!