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Here we see every tree is a graph but not every graph is tree.

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No cycle and should be connected

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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APDaKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRSojSOqIrMzHCqoJJPoAOtACUV1Vj8MPGuo24ntfDd95TdGlURZ/ByDVHXPBfiTw1GJNd0S9sojwJZIsp/30uQPxNAGHRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAXtF0a/8AEOtW2laRAbi8un2RoOnuSewA5J7Cu+n8RaR8MN2m+C1tdV14LtvdflQOkL947dT0x/e/n2p6dO3gb4WnVICU1vxSz21tKPvW9khxIw9C7cZ9MV58BgYHTsPSgDvbP4yeLIrS6tNVuINbt7lGVo9RhD4yOoIweOuPasLw9448ReGZP+JXqs/kHiS1nbzYZR3DRtkH9KwKKAPRJNH0b4kWNxe+ErOLSPEtuhludEj/ANTeIPvSW/ow6lP/ANdedA5zxgg8g1e0fVrjQdbstVs22z2UyzIf905I/EZH410PxS0u30z4j6kbBdtpeiO+hUdlmUPj8yaAORooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApGJCnHXHFLSNkqcde1AHd/Ff8A0XxFpWjpxFpOi2kCL6Fk3t+OWrha7z4sIbzxHp2vw/NZ6zpVtPDIvQsqBHX6gj9a4TFACUUYoxgZPA9TQAjDMbADJ2kAevFd58Xv3fjO0tX4mtNHsoZh3DiLJB/OneGvCdroFnB4s8fh7TTkYPY6Yw23GpOOVAU8rHnGWPauS1/WrrxH4hvtZ1Db9pvZjK4Xoueij2AwPwoAz6KKKACiiigAooooAKQnAyaWu2+HWmaXF/afirxLALjStDjUrbOBturlziKLHfuSPpQBz9j4W13UtLuNSsdIu5rC3jaSW6EeI1UdTuOAfwzWTXQ+JfHXiHxdMf7Yv3Nt/BZQny4Ih2CoOPzya54jFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAdz4R137V4XvND8RaFJrvh+wBvWaCQR3Gm5IUyRuexJ5Xp+tDeHPAF98+meOpbBT/wAsdW01wy+25CQa3/ByeH/DvwbvdS8WwXc0HiHUVtUis5PLleKHnIJx8obcSO+BXlt19nN5ObISC2MjeSJsFwmfl3Y4zjGcUAdoPC/gO25vviD9oA6rp+lSOT+LEAVNa+J/DHh25ji8AeG5tS1Z2CRalrQErBjwPKgX5Q2emea4CljkeGRJYXaOSNgyOhwVIOQR7g0AX9e1PV9W1u5ufEdzc3Gohykv2knchBxtx/Dg/wAOBis6vQ/F1snjjwsnjvTIwNQtttv4gtoxyHAwtyAP4WA59D+NeeEYoAKKKKACiiigAooooAOnXgV3Hi7/AIkXw+8LeGk+WW6iOs3wHVnlJEQP0QfrXELGZnWMdZGCD8Tj+tdn8XJQ3xS1OBOI7KOC0Qf3RHEox+eaAONHFIaXNdH4V8E3vihLm8a5g0vR7Lm81O7yIov9kf3m/wBkUAc1RXa6z4P8Pv4ZvdX8F67c6oNKdBqEV3beS2xzhZYx3Xdwc1xVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABVzR9Ludb1qz0uwXdc3kywxj0JPX6AZP4VTr134TWNt4W8J618RdVRWNmj22nRt/FJwCR7liq/TdQBh/F++tYPEVl4V0o/8S7w1araRj+9KeZG+ucD65rgERpZFjjVnd2CqqjJYngADuadc3M15dy3V05knmcySOf4mJyT+Zr0Xwslt8PfByeNtRgjuNa1AtFoNtKMiMDhrlh7ZwP8A6/AOxy+v+BPEvhbT7e91/S5LO3uG2ozOpw2M7SAcqcc4NZ40DV20P+2V0y6bS8sDeCImIYODlu2DxVa9v7vUrya71C6muZ55DJJJK5JZj1NdH4K+IWreC7xEila60d2xd6ZKd0UqN9/CngNjuOvfNAij4R8V3vg/XBf2arPFIhhurWT/AFdzC33o2/oexqXxZoVpp8kGq6AzzeH9SLNZSP8AehYcvbyejp091wRVj4j+Hrbw94vkGkc6Pfwpe6c3YwyDIA/3TkflVTwv4ht9La40/W4nu9B1DAvIF+/Gw+7PH6SJ1HqMg9aAMCitfxJ4fn8O6oIHmS7tbiMT2V7EP3d3Cfuuv8iOoORWRQAUUUUAFFFFACpI0UiSJ95GDD6g5H8q9E+Jfh6/1jxG3i3QbK4v9H1yKO5S4tYzKI5SgEkbhQSrBgetedVp6N4m1zw6X/sHV73TxIcutvMVVj7jpQB0uhfDi4Fqda8cvL4e8PxcvJOuy4uj/wA84YzyWPTOOKzvGHjSTxJ5Gm6dbDTPD1h8tlpsZ+VR/wA9JP70h6k9s/icPU9W1HWrv7VrF/dX8/TzLmZnI+mTx+FVKAOw+GT+d4rn0mU5h1jTrqxkX1JiZk/JkBrjUz5a7uuBn61u+Cr7+zPHWh3h+7DfwlvoXCn9CayLhdl5Og/hlcfkxoAjooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigA6difYd69L+JF+2g+DvDPgKEhHs7Zb7UlB/5byZYKfoGJ/EVg/DXR4NS8XLfakm7S9FhbUr0noUiGVX/gTAD865/WtYufEGu3ur3zFri9maaTnoT2HsBgfhQBSEZlYRr1c7R9TxXcfFy/E/jp9Kg2iz0G3i063Reg2KC5x7sT+Vcfp/8AyFbPv/pEf/oYrV8cSGX4heIpD1bUpz/4+aBmFRRRQI76c/8ACTfBCKX7974UvPKY45+xzH5fwV+K4DpXX/DS9gi8XjStQbbp+uwPplzk8DzBhGP+64U1y97ZT6bqFzY3qlLi1leGVT2ZWIP8qAOk8N6tZahpTeFPE1x5OnTSGSwvm5Om3B/i/wCuT8B1/wCBdRWBq2lXuhatcaZqsBgu7Z9kiHn3BB7ggggjgg1TrtNOP/CdaBFokx3eIdLiP9lyt1vYBkm1J7uoy0Z+q+lAHGUUfgR7EciigA7UUUUAFFFFABRRRQBPYTLb6lazucLFPHIT6BXBP6Ci/kjl1K7lgOYpJ5HQ4xlSxI/Q1BRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFKqs7BUUszHAUDJJ9BQAlFdevw8ltVH/AAkfiPQtBmxk2t1dGSdfZo4wxU+x5FKvw7uNQ3Dwxr+ia/MBkWtpdGOdv92OQKWPsKANs3Fp4P8AgWLRWU6z4uYSuoPzR2aNhSfQHBx6lj6V5pV/WbnUZ79YtZRorqyhjszE8fltGsY2qpXsQPz61QoAltH8q+t5P7kyN+TA1reNFKePvECt1Goz/wDoZrCbOxtvXBx9a6j4hKp8bXN3GMR6hBb3sfuJIUYn/vrdQBzNFFFACo7xsHiYq6nKsOx7H86734n2K340jxraAeR4itle429EukG2Ue2cZ/OuBrvvDd2dc+E/iTw3MQ0mmFNZss9cKwWZR+Bz+JoA4GpIJ5bW4iuLaVoponEkciHDIwOQQexBFR0UAdh4ohh8SaOvjDTYljmaQQ61bRjAhuD92ZQOkcuM+z5HcVx9a/hrWX0bVwzKslneIbW+gb7s0DnDA+4+8D2Kg1mXEIt7qaBZFlWKRkWRTkOASA344zQBHRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFbXhS8j07Xhe7Xe6gt5WsUSMuWuiuIuB6E7vqorFALMAqlmJAAUZJPYV6VdXEXwl02Ox09Y5PGt3CHvLx1Df2VGwyIowcjzCOS3b8qAM63+FWqQwrceKNV0zw1HN84Gq3IE7g9/LGW/PFWT8KJb6IzeC/FGj+I5ojk29pP5U4x3VWPP4GuBuLie7uXubyeS4uJCWeaZy7sfUk801JJI5VlikeORDlXRirKfUEcigD0SJrjxjIPCvjaGSy8UW6+XpepXalJJWHS2uCfvA9FfqD3rzyeCa1uJbe6iaGeFzHJG4wUYHBB9waualrmra1cw3GraldXlxbxrFDNNJueNVOQAevB59a6P4iY1GTQ/E4QLJr2nLLdbRgG4iYxSN+O0E+5oA438M11XiRRf8Agnwpq6DmKCbSpj/twybkz7mOQflXK113hmFta8D+JdEX5ri2RNYs07kxfJMo+sb5/wCA0AcjRR9KKACuv+FpD/EOztHPyX9vc2Tj1EkLDH54rkK6/wCE0fm/Frw6CMgXe4/QIxP8qAOPAKjaeCODS1Ld7ft9zs+758m36bzioqANHT9Mtrq3a4vdYstPiVtuJN8krfSNASR7kgV3MPgbwhonhq11/wAYavqyQ3RzZ2EdvHFPep/eVdzMi/7Rx+tcx8P9Ci8TfEDSNJuubWa4D3A9Y0BZh+IXH41D408ST+K/GF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this is cycle and this should not be in a tree.

![Shape, arrow

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1OQAAkpIAAgAAAAM1OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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zQB6J4VuofHXhX/hBtWlVdTtd03h67kPRurWrH+638Pv8AQV59PBNa3ElvcxPDNE5SSNxhkYHBBHqDSRyvFIskLtHIhDI6HBUjkEHsQa7fxDJF468Pt4mt1WPXdPRU1uBRj7QnCrdqPyV/Q4PSgDhqKKKACu48KXKeLPDsngXUZVW58xrnQZ5CB5dx/Fbk9lkHT0bHrXD0qu8bq8TsjqQyspwVI6EHsaAHTQyW88kM8bRSxsUeNxhkYHBBHqCKZXaa8V8baG/ii2VV1mxjVNcgQY85eAt4o9+Ff0OD3ri6ALelatf6HqKX+kXctpdIMCSJsZB6qR0KnuDkGt920TxYCwW18P62x+6Pksbtvb/n3c/jGf8AZrlaKALF/p95pV9JZ6lbS2tzH96KVcEDsfcHsRwar1u2HiT/AEGPS9ftf7V0tOIkL7Z7X3hk/h/3DlD6d6oyWNvceIIbDRbqS5huZo4oJpofLbLkD5lyRkE4ODg44oA7XTD/AGZ+zvrc03ytq+rwwW4P8XlgMx/Q1F4JRL74XePbK5G+O2gt76HJ/wBXKrFdw9yOKZ8UdQt7fULLwboxP9leGYzbBv8Anvcn/WyH8ePzqTTU/wCEX+DOq3d3hbrxVKlrZx9GNvExaST6E8D1oA8/opKWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAFVS7qqgszEBQBkkntXbeKSPB/hmLwXbEf2hclLvXpFOf3mMx22fRAckf3j7U3wbbweHdJuPHGqwpKLOXyNIt5ORc3mPvEf3Ix8x98CuPuLme8upbm7laaeZ2klkc5Z2JySfqTQBEaPr0PBoNFAHo9wT8RPhotyv73xH4ViCTD+K6sM8N7snf2+tebg5GRyK1fDXiG98K+IbXWNNI86AkNG/KTIeGjYd1YcfrWr4x0G1t/J8ReHAW8Pao5MI72c3V7Z/Qr/D6rigDlqKKfBBNdXEcFrE800jBUjjUszE9AAOtADKuaVql3o2pxX2nyBJosjDDKupGGRh3VgSCO4NdZH8GfHroGOhiPPaS8hU/lupJPg549jQuPD7zAf8APC4ik/k1AHP63p1skMOq6OrDS7tiqozbmtZRy0DH2zlT/EuD1BrIrU1TSte8NpLZavZXumx3JXzIp42RZSpO32JGTj61l0AFFFdf8Lv7Hk8fWlr4g0V9YguUaKOFIzJ5ch5EhjH3wMHI7A57UAc9omtXnh/WbfUtOdPOiJBSQbklQjDRuO6sMgirHiJNHOqC48OOy2VzGJhayZ32jH70JJ+8AehHVSM817N4sTSvCNjeyeIvDvgR7mNsWljb28nn3S5wGOP9VxzznpXBp4h+G2rERar4OvNFZjzc6ReFwp/65v1HtQB5/iiuo8a+EYvDTaffaXqK6pourRGaxu9mxmAOGV17MK5egArU0TXP7FaY/wBlaVqHm4/5CNoJ9mM/dyRjOefwrLre8D6dpureO9HsNcl8rT7i5VJyW27hg4XPbJwM+9AGpY+NreW42z+AfDF+rDBjgsXjb8CjH+VdLeav4G8dXFtp/iO21TwjqNpClnav5pltoVH3UKMAUGT1IHua1/EmufE/R9ZuNJ8LeGToenxyGO2XS9OVvMjHCt5mDnI57VgQ/DfUnvJPEfxc1P8AsqyZxJMLmYSXd4Rj5FUZIyBj1x0FAHEeK/DN74Q8S3OjalsaaHayyRnKyowyrj2IrHrpfH/iseMvF8+qRQm3tVjS3tYW6pEgwufc5JNc1QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUV6BoVj8MJ9A06LWr7XF1i4jZrl7SLelswPQoASRjkEZ75xQB5/Wn4c0G58T+IrTR7Jgkly+Glb7sKAZeQ+yqCfwrrtV+FnnaLNrPgbXbTxNYW6l54oFK3EK9cmPv+GD7VkaROdD+Hep6nCdl7rU39l28gPKW6gPcEf72Y0z6ZoAh8a6/bazqsNpooMehaTH9k02P+8gPzSn/adssT9K5yiigDX0nwl4i16EzaLoWoX8IODLb27MmfTd0q1ceAPGFohe48LauijqfsjH+Wa1NS8/TfhXoVxe6hejUL6V/wCzYI7lkS2skJySoxne7HBPYVzlp4m1+xYNZ65qcDDvHeSD+tAGfLDJBK0U8bxSL95JFKsPqDV6w13UNN0zUNOtZh9j1KMR3MEiB1bByrgHo47MORXf2Gtah4x+HHiG68dbb2002Af2dq0yAXC3ZbCwq4A3gjORzivL6ACruj6rd6JqsOoaftNxESEV13BtylSpHcEMR+NUqMkEFSQQcgjqD60Aem6qvhz4bPFpt7pf/CS+JliSS5N7cOLSzLAMI1QH5yARyf8A61cnr/jvxB4iuoJby8+zLaqUt4LAfZo4VJzgBCP1zXUahq/gz4h+Vf8AiTUbnw54iESRXNwtt59tdlBgPheVYjr/AFqiugfDrTT5upeM7rVl7W+l6cyM/sXkOFoA2vhb4q8TeIPEUfhzWJ21zw/NG51CHUf3q28AU5k3tyuOMc/SvMb9LaPU7tNPkaW0Sd1gkYcvGGO0/iMV1et+PUk0STw/4P0xdA0Sb/j4RX33F57yydSP9kcVxtABXovwj1K1tJPENlFqEGla5qFh5Ol39wwVUfOWTcfuluMH2rzqkIyMHpQB3cnwf8ez3bvcaWrM53PdTX8RVvcuX5qZPB/hXww3neN/EsF/MnI0jQ3813P915vuoPpzXAFmKbC7FP7hY4/LpTQMDA4HpQB0XjDxbN4sv7dhaRafp1jELewsIPuW8Q7e5Pc1z1FFABRRRQBvWnjrxZYWotrLxLqkMAXasa3TEKPQZPFY93eXV/cGe/uZ7qY9ZJ5WkY/iSahooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEOcfLye1eu+LPECfC3y/Cvg2zhtb5rKJ9Q1d0D3ErSLkqpP3Rg/rx615H9Dj39K9X1zRk+LNrYa/4d1GwTW47OO21PTLucQuXjGBIhPBBH9KAOC8G6lqOkeNNKutFkdLv7XFGqxn/AFgZwChHcEHpW18UL+EeLb3QrCGOKy0rULswmMn5jK4dhj2IwMVo6TZ6f8MZm1rWL2x1LxFEpGnabZTCdLaQgjzpnHy8dlGTmvPJpZbieSe4cySyuXkdurMTkn8SaAGg0ucdOtNpQc0Adna+LNC1TQ9O0zxlodxdNpkP2e11DTroQzJFkkIysCrgEn3qMah4B04+ZaaFrOrSDlU1K+SKH8ViG5vpkVyBFFAG34j8Xan4mNvFeGK3sbQbbXT7RPLt7cf7KDv6sck1iUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFIVDdRmlooAQAAYAAHtS0UUAFJilooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooASikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooAWikooASiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=) here in tree there is no connection backwards.

Hence in program to detect both the condition.

Code:

Here use is cyclic &visited as it will create multiple instances.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1MwAAkpIAAgAAAAM1MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Text

Description automatically generated

Above yellow line stored in vector inside vector.

N is the outer vector size.

![A picture containing text, blackboard, clipart

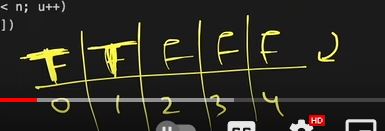
Description automatically 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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1MgAAkpIAAgAAAAM1MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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at 2 is src and parent is 1.

Here 2 children are 1 and 4 hence comes back to 1.1 already visited and hence go to else if.

Src 2 and parent is 1 and I is I also 1.

Here 1! =1 hence false and will go to next child which is 4.

Here we prevent it declaring loop as 1 goes to 2 and then return to 1 again.

Diagram

Description automatically generated when go to 4.

4 children is 2 again hence this will also