A picture containing text, clipart

Description automatically generated

Here the example from which we do prim algo:

Start taking the minimum edge.

![A picture containing text, clipart, gauge

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4OQAAkpIAAgAAAAM4OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APDaKKKACiiigAooooAKKKKACiiigA61ZutNvrK3invLG6t4Zv8AVSzQsiv9CRzVbpz6HIr0HXbTxKvgm2s7+DVdU1DVpUvrh3SSVbeNQRGg6gMc5OOgwK5a9d0pRWmplUnytLuefUVNdWdzZXDQXtvLbTKATFMhRgCMjg+1Q4rqumro1WwUUYoxQAUUYoxQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV12jaLoFv4Zi1HxVNNCdQklNp5LYYRQjLYHTMj/ACAngYNcta2s19eQ2lqu6e4kWKNR3Zjgfzrc8c3ccniVtNsG3Wekxpp9tt6ER8MR9XLH8a4695zVKLt1b8kY1G21FaD11zwpGfKj8HK9uThnk1GQz/XcMKD+FN1LQLCfR5da8LXU1zZQMourS4UC4s93Qtjh0zxuH4inP8PfFqweZ/YNycDJjDIZAP8AcB3fpVbwhqaaT4njW/Uiyug1jfxuMfupPlbI9VOD9RWNoRTnQndrdXvczsoq8HcxKKuaxpkmi61eabP9+0naEn1weD+Iwap16EZKcVJdTpTurhRRRVDCr8euatCqrDqt9GqjAC3LgAfnVCjFTKnGfxK4nFPdEk1xNczNLczSTSt96SVyzH6k80ykwaMGqSsrIq1haKSml1HVgPxoEaOkWdje3+zVdTXTbVI2kebyzIzY6Ii92PbOBXa2V14Z8HaPaeINOsLzU728eWG0XUmRFUJgNKFUH12jn1rzgOGB288cV0/jY4k0CCHH2SPRoGtwOnzZLn67815+Jpe1qRg5Oz3Xoc1WPNJK+gp8T6PMwF54L0lo+/2eaaJ/++tx5/Cnjw9pGvwyyeDrm5W9jQyvo99gyMoGT5Mg4fAycHBxWbpWlQ3mg67qNy0g/s2CMxKhHzSO+0Z9sZqhZXc9hfQXVo7Rzwyq8bqeVYEEYpqlFc3sW04/d3F7NRvyPYgHNFb/AI6t4bTx5rEdsqpH9o3hF6IWUMQPoSawK66c/aU1PujojLmimFFFFaFBRRRQAUUUUAFFFFAHQ+AEV/iJoW7teKwHqQCR+tYSTmPVPtFyN224MkgY9fnyc/rVjR9QbSdbstSjXc1nOk+0dwpBI/KtTxhof9nau9/a4m0jUpGnsbtOUkVjnZ7MucFTzXFO31hqX2lYy/5ea9Ua3ijw/rt/8Sr59FtbxmvZ/tFpdRKwTY4DKwfoAAeueMVkeOLu31PxteS6fIlwGaKJpox8s8qqqu49mYE571nLrOqR6ebBNTvFs2Xa1uLhvLI9Nuelafg3TYbjWDqWoIf7L0dPtd0w6Hbykf1ZsDH1rJUpUI89T7KsrdTJwcE5SJPiEwb4gayF/huFQ/URqD+orn7T7N9sh+3+d9l3jzvIx5m3/Zzxn60++vZ9T1C51C7OZ7uZp5P95jnFV67KVNxpKD7G8U1BI6RpvBER403Xro+j3cUX/oKmm/2l4OHTwvqR+urj/wCIrnaKj6tHrJ/eR7K/VnSDU/Bw6+FdQ/8ABv8A/YUn9seE0OYvBryf9fGquR+SgVzlAo+qw7v72L2K6t/edGfEegfweB9PA7bruY/+zUf8JLooHyeCNJB7bp52/wDZq5zFFL6nS8/vY/YxOj/4TFVGIfC3hxF7A2ZYj8S1L/wnepxgfZdO0O2A6CPS4jj8SDXN0UfVKPYfsafY0dY12/1145NSMLNCpVBDbpEAPogGfxrT8QD7V4N8LagnKx28unyEdnjkLD81cVznaug8O6hZTafd+Htdn+z2F6wlgutu77JcDo5H90j5W9sGprQ9mozgtIv8AqR5UnFbFWw1W3tfCetadIJDcX8luYiq/KAjEtk9uoxT/CGmLq/i2wtpwPsyyefck9Fij+dyfwXH41Yn8BeJ4rgRw6NcXiOR5dxZjzoZQehV14xVrUZLfwhotxolncR3OtXw8vU54TuS3i6+QrdyT94j0xWcqkLSjRd5T/DzM5Si01HVs57WNSfWdbvdSlzuu53mwewY5H6YqpSUtd0YqMVFdDeK5VYKKKKooKKKKACiiigAooooAT6VsaN4m1DRLeW0g8i5sJyDNY3cQlhc+uD90+4wayKKidONRWkiZRUlZnTf2z4SkImm8IypOOTFBqTrAx9wQWA9gap6x4ovNWs49PjhttO0uJ/MSwso9ke7+8xzl292rForKOGpxfNv6u5CpRTuKTSUUV0GoUUUUAFAoooAWikooAWkoooAXPFJRRQBLFdXMEXlW91cQx55SOZlH5A1Fx2GKKKSSTukJRS2CiiimMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)

Start checking both the adjacent edges of both the nodes.

A picture containing text, clipart

Description automatically generated

These are the checked edges from the adjacent node: the checked ones.

Whichever is the minimal connect it: here 1->2 with edge cost 3 is minimal.

![Logo

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RCERXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQcOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAB6hwABwAACAwAAAhiAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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EBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8NooooAKKKKACikyO5ApTwASCA3QkEA/SldCugooopjCiiigAqzp1hJqeoxWkMkETSZPmXEojRQBkkseBxVarOnW0F7qdtbXl1HZ28sgWW5kGViXux/D9aio3GDaJls2W9b0C50OS286e1uobqIywXNpLvjkUHacHg8EY5FZdd34m0m31jVlex8SeHYNNtolt7KJr45ihXpkbeWP3j7muFPBIyDg4yOhrDC1va01d6mdKfPHXcSiiiuo2CiiigAoq5a6RqF9YXN7Z2cs1talRNKi5Clug9z7Cq0sMsBxPFJCfSRCv86hVIN2TVyeaN7XGUUUVZQUUUUAFS2ty9neQ3MaRSNC4dUmQOjEdmU8Ee1RUUmrqwmr7nQrqviXxlrdrYPqd3PNcSBI41kKRxD1CrgKFHPtiovGuo2+q+NtUu7N/MgMwjST/noEUJv/AB25/GtL4fJra6pO2mWUU2nTx+RqU10pWCOE/e3SjBTjPQ5Nc5qy6eutXo0XzP7O89/s3mHLGPPBz/njFcNOMViXGKVkun6nPGKVXRbIqUUUV3nSFFFFABT4YZLi4igt42lllcRxogyWYnAA/GmV0vgMi11u81dgCNI0+e7QkZAk27Yz/wB9MKyrT9nTckTOXKrlrU9F0XQ/s+hX0iDUbhla61iTeYLQAnckSr/rMEbS3IzwPWq40XwnN8tv4wmibpm70l1X81J4/Cl8Kz6lqlne6Ta27X9zIivbrNEZoxIMkoTzt3biR0GevXNYtxarJHNcWsTQGByl3ZyZ8y1fOD15KZ4B7dDXPCjK1vaO/XYyjB/zak+ueHrrQzbySTW93aXalra8tZN8UwB5x0II7qQCKyq6vwTN/alxJ4SvvnstW3eTkZNvdBSY5F9CSNp9Qa5MAjhuo4P1rSjUnzOnPdfii4SbbjLdC0UUV0mgUUUUAFFFFABT4IJbm5it7ZN80zrHGoH3mJwBTK6bwIUtNYu9alAZNFspLxVPeTGyP/x5gfwrGtUdOm5LcipLli2bGt+JoPDMr6HollaSS6SEtob+WFJdrAEzsAw5ZpD97sFxWPH8QfEJyuoXceqWz8SWl9AkkTD0Ax8v1GDWboGjS+I9cWxe7S23JJPPcyqWVFVSzMQOT0NaaeErDU1ePw14kt9TvFUutnLbPbyTADJ8vOQxwDxkGuJQwtH3Kiu+r16+fQ5lGlHSW5Drml6fPo1v4h8PRtb2Usv2e6s3febOfGQA3dGHIJ54IrnjXTeCP+JhJqfh+X/VarZSbMj7k0QMkbfXgj8a5hTlFJ9K6aDcXKm9bbejN6b1cewtFFJuUHlh+ddRqLQOtN3r/eFAkT++KE0K6H0hoUh/uZb/AHVJp/lSHpFKf+2bf4UnKPVivFdRlFSx2lzM4SK1uHY9FWFif5VdTw3rr42aJqTZ9LOT/CpdSmvtL7w549zNrZ0TUtOsLd1k0GLVtUmmVbdrti0MakYx5YwWYt6nGKli8C+K5uU8OaljsWgKj9cVHoyTaF4801NStmils7+EzQyYyvzDj9a56tSnUptJ39GZTlGUXZnSeM/GOq6VrMmh6DdppdpYBY5U02NYVefaPMORzjdwB7VhW/xA8TR/Jc6o+oQNw9vqKi4jcehDD+VZviK3e08VatbyvveK+mVnP8R3nmtDVbWC38B+HJVgjFxdS3UskoX5mAYKoJ9BjpXPToUKdOEeVNy6/K9zOMKcYxutyzNZaZ4l0m6vtEsV0zVLGPzrqwictFPEPvSRZ5Ur1K+nIrl66b4e8eMoHb/VR2t083/XMQtu/nXLp9wfSuij7lSVK+is18+hrTvGTiOorR0jSotUeYT6vYaYsQBLXrMN+f7oUEkjH61qDSvCNrzeeJ7u9I6rp+nEA/8AApCP5VpPEQg+XVvyRUqkYuxzWKRmVD8zBTXT/wBp+DrL/j08N3uot2fUtQ2r/wB8RgfzoXxzdW//ACCtG0PTcdDFYLIw/wCBPuNR7aq/gpv5uxPPN/DEx/tmq3umw6cs97PZQkmK2RXMaknJ+UDBOfWpIPDOu3LAW2iajLnpttH/AMK0ZvH/AIrmXH/CQXsY/uwFYgPwUCs6fxJrtypFxrepSg9Q92+D+tJKutlFAlUWySNJPh54pZQ0ulNaqRnN3NHD/wChMKX/AIQLVh9+70ZP97VYf/iq5pyZWzKTIx6lyWP600RoP4F/KjkxL+2vu/4I+Wp3Om/4Qzyub7xN4etQOoN4ZT+SA0v9l+ELQ/6b4mur4j+DTbAgH23SEfyrmQqjooH4UvWj2VVr3qj+SSF7Ob3kaWsy6HI0K+H7K+gVM+bLe3CyNL0xhVAC459a0vDw2eC/F8o+99lto/wacZ/lXNmuo8HoNTsdc8PRSLHe6rBELPzDhZJI5N/l57FhwPfiprwUKFt7NfmTUjywL3g++1O5s/8AStQurPw3oa/aLmOzBjM7FsrESvLO54yegHtUMfiddU1m513VNNuV1AO0huLSDeGhJOYpAeMY+XeckDseMc/p+s6v4dupl06+u9NnztmjRihyOMMp7j3FXL7xn4l1Kze1vddvpbeRdrxebhXHoQMZFTCjUjVc4JWf5AoyU3KNrMg8N3TW/jPR7mBRGV1GFlReQuZBwD9DiovENutr4q1eCPASK/mRQOwDmtLwNp/2rxPb6jc/JpmkOL29nI+VFT5guf7zEAAe9Yd5dvf6hdXkn3rmZ5iPQsxP9a1TTxLt0Wpa1qfIhooorqNQooooAKKKKACuk8NjzPCnjCJP9YdOifHqqzqW/pXN1seGNYg0XWDJfxNPYXML2t5En3micYJHuDhh7iufExcqTS8n9zuZ1U3HQl8HajbaZ4phfUJPKs7iGW0uJMZ2JIhXd9ASDWto+mWfgy+j13UdY069azy9jbafcea9xNghd2B8iDOTnntWVrfhO80uJb6xY6po0vMGo2ylkI9HA5R/UHvWFDC1xMIrVDLIxwI4lLMx9MCudwhXvOM7Jqz/AK6GTSneSenU6f4ek/8ACY/bpPu2tndXMrdhiJv6tXLL/q0/3RXXXdu/g3wrc6dd4i1zWConhB+e0tQc7Wx0Zzg464HNciD/APWrTD2nOVRbaJfIqnrJyRoaRqh0m5eYWFhelk27L6DzVXnqBkYPvWuPHeqRDFnYaHaL6RaVF/NgTXM0VtOhTm7yVy3TjJ3aOm/4T7xD/f07/wAFkH/xNL/wsHxJjAm08fTTIP8A4muYzRmo+q0P5EL2VPsdMfiF4sGfK1gwD0ht40H6LUf/AAn3i/8A6GK9/wC+h/hXO5ozVfVqFvgQ/ZU+xvyeOfFkqlZPEeoEH+7MV/lVFvEOuv8Af1vUWz63cn+NZ1FCoUVtFfcP2cOxNLdXc7bp7u4lb1eZz/M1CrPHKsiH51YMCfUHI/Wiir5I2skVypK1jpfHsIbxOdUiX/RtZgjv4nHQl1G8fUOGFY97q0t7pGmafIiLHpqyLGy5y+99xz/KtTSdZ0240QaD4mWYWaSNLZ3sA3SWbt97Kn7yHqR1B5FTReHPD1pMLnUvF1hcWKHcYbFJGuJh2VVZQFJ6ZJ4rijNUkoVU7x28znUlBKM1qtg0dTpHgbV9Xl+SXUgNMss9XBO6Zh7AADPqa5itXxDrj67fRyLAtpZ2sQgs7NDlbeMds92PUnuayq6KEJJOc93+HkaU4vWUt2FFFFdJqFFFFABRRRQAUUUUAFFFFABSqxRlZCVZSCrA4II6EUlFAHTf8J3qF3GsfiCx03XgowJL+2Hm4/66KQx/HNN/4SfRv+hH0cN6+fPj8t9c3RXK8JRfS3o2jH2MDZ1jxRqGs2sdiwgsdLiO5NPso/LhB9SOrN7sTWNQKK2p0401yxRpGKirIKKKK0KCiiigAooooAKKKKAL2la1qehzmbSL+4s3b73lSEB/qOh/EVry/ELxLJG6pqCWzSDEktrbRwyP9XUAmuaorGVClJ3lFXIdOL3QMS7s7sWZjlmYkkn1JNIBilorbbRF2CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/9k=)

Now check the adjacent edges of all the 0 1 2 nodes. Find minimum in them.

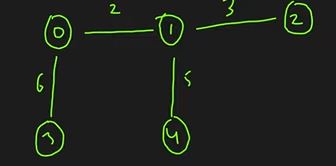
Here 1->4 with edge cost 5 is minimum.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2MwAAkpIAAgAAAAM2MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/AOM/4Xl8Rf8AoYf/ACSt/wD43R/wvL4i/wDQw/8Aklb/APxuuAooA7//AIXl8Rf+hh/8krf/AON0f8Ly+Iv/AEMP/klb/wDxuuAooA7/AP4Xl8Rf+hh/8krf/wCN0f8AC8viL/0MP/klb/8AxuuAooA7/wD4Xl8Rf+hh/wDJK3/+N0f8Ly+Iv/Qw/wDklb//ABuuAooA7/8A4Xl8Rf8AoYf/ACSt/wD43R/wvL4i/wDQw/8Aklb/APxuuAooA7//AIXl8RP+hh/8kbf/AON0f8Ly+In/AEMP/kjb/wDxuuJ0+Wxgv45tVtZbu0TJeGKXy2fjj5scc1s+MdPsbC700WVmdOnnshPdWPnNKIGYnYNzc5K4JB6ZrF1kqiptb9SHO0uWxu/8Ly+Iv/Qw/wDklb//ABuj/heXxF/6GH/ySt//AI3XAYorcs7/AP4Xl8Rf+hh/8krf/wCN0f8AC8viL/0MP/klb/8AxuuAopAd/wD8Ly+Iv/Qw/wDklb//ABuj/heXxF/6GH/ySt//AI3XAUUAd/8A8Ly+Iv8A0MP/AJJW/wD8bo/4Xl8Rf+hh/wDJK3/+N1wFFAHf/wDC8viL/wBDD/5JW/8A8bo/4Xl8Rf8AoYf/ACSt/wD43XAUUAd//wALy+Iv/Qw/+SVv/wDG6P8AheXxF/6GH/ySt/8A43XAUUAei2nxp+JV7eQ2tv4gUzTuI0DWlsoJJwMkpgfU10MnxS8R6axj1r4lK8y8NHpWkQXAQ98yFFU49s14wQCMHkGui8FeHE8Ra55c7j7PaJ9olgQgzXCrz5cSfxMcY9hXJibxi581kuxlVuo3vY6/xB8W/iRoOu3GmyeJ0n8kqVmWxtwJEZQytgx5GQRx2rO/4Xl8Rf8AoYf/ACSt/wD43XHa7qNxrHiC/wBRvIjDNcTszREEeXzgLz6AAfhVGtqXN7Nc29ioX5Vc7/8A4Xl8Rf8AoYf/ACSt/wD43R/wvL4i/wDQw/8Aklb/APxuuAorUs7/AP4Xl8Rf+hh/8krf/wCN0f8AC8viL/0MP/klb/8AxuuAooA9A/4Xl8Rf+hh/8kbf/wCN1PH8ZPifNYzXkOsTSWtuQJp106ApGScDc3l4GTXE6Bo76/r9rpsbiLzmzJKT/q4wMu34KDWrqviqObVbaHT7KE+H9OkP2XTJdwjlA6SS4OXcnk5+lc06sufkgrvd/wBeZnKbTtFXNn/henxD/wChjX/wDt//AI3R/wALy+Iv/Qw/+SVv/wDG6xv+E3llGL3w/wCHblP7p04R4HoChBFGo6Xp2s6G+ueGbQ2jWnGpaaJS4gB+7NGTyYz0Ofuml7eUWlUja/W9yfaNO0lY2f8AheXxF/6GH/ySt/8A43R/wvL4i/8AQw/+SVv/APG64Dp1orqNjv8A/heXxF/6GH/ySt//AI3R/wALy+Iv/Qw/+SVv/wDG64CigAooooAK6K18Da1d6fa3yi0htriLzjJcXKxLChOFZy3TdgkAZJArO8PaQ+veIrHS0YILmUK7noiDl2/BQateKfEMmuaxem2lkTTJJl8m2z8ixxgpHx6hf51yVZ1ZVFTpO3VmMpSc+WPzLa+B7i6YxaPrmiardAf8elvdbZG9l3gBj7A1zlxbzWlzJb3cMkE8Z2vFKpVlPoQaZnIA4+XBGByK6y4nfxV4LkuLo+dq2hld87cyT2bHHzHuUbHPoaTlVotc7vF/gDcoat3RydFBGDRXYbBRRRQBa0y7jsNUtrua0jvEgkEht5SQsmDnBxXQX3ivQ9S1Ce+vvCizXU7l5HOpzAMx9Rjp7VytJXPUw8KklN7+rX5GcqcZy5mOYgsSo2jJwM5x7UlFFdGxqFFFAoEX9K0PVNclePSLCe8aMZcxr8qD3Y4A/E103/CAW+m6M83izXLTRr+Yj7LbNIJDt7uwTJwR0x+dc9o41DVLi18O297LFa397GGh34Qufl3Ed8CpvF+oR6p4sv5YFKW8L/Zbdf7sUQ2KP0z+NefV9vOsqUZcq30Wv49/Q5588p8qdkXF8GxXuV0LxPoupT/w23mPBI/sPMABPtmsLUNMv9Iuza6rZzWdwvJjmXBI9R6j3FNm024TS4NQkh/0S4keOKQkEOyY3Ad+Mium8OXj+JNPl8L6o7XA8mSfTJpOXtZkUtsB67GAIK/Q1TnVpLm5uaK37/gU3KCu3dHJUUgOVB6Utdq1NgopCyr95gPqavWGjanqj7NM068u2PQQ27t+oFKUoxV5MTaW7KVdBoSeH9Pit9X1rUJLm4jcvDpdmhD7lPHmSHARSf7uTipv+FeeI0G69trXTl7m/vYocfgWzSHwnYwAC+8X6DEe6xPLOR+KLiuKrXo1I8qnp1tqYzqQkrXMXVNSuNY1e71K9YNcXczTSYHAJ7D2HSqldKdG8Kxf67xkJPa20yVj/wCPECjHgaA8t4gvz6qsNuD+ZY1ccRBRShFv5P8AUaqRStFM5qiuiN/4MB+Xw9q7em7U0Gf/AByl/tvwxD/x7+DVlYdDeajI4/JQKr6xN7U3+H+Y/aN7RZzZIBwSAfTNOMciqrPG6q33WZSA30PeukXxzeWwxpGk6NpXPD29kruP+BPuNZWr+INX16VH1nUrm98vPliV8qmeu0DgdBVQnWlLWKS9dRxc3urI1PCJNraeI9THBtdJeND6NKwjH6E1Ho3hmyvLOzm1TxBbWLXjBLe1iia4nf5tuSq/dGfU59ql8Pnb4H8XN38q0UfjN/8AWqbwNLpdlPfX11qdrYatHFs01rtGMaO3DSkqD8yjpnuc1x1ZTj7WcXZ3S09EYSbXNJHPatp0mka1e6bPIkklpO8LOnRipxkVseALkW/jrTIpP9ReSGznUjh45VKEH16g/hTL3w9p9raz3E/i7SbqcKzrFbiWV5n64ztAGT3NUfDiO/izR1iB8xr6EKB67xW8pKrQlrfQ0vz03fsUriB7W6mtpRh4JGiYe6nH9KjrT8TOj+LtZeLlGv5iuPTeazK6abvBM2jrFMKKKK0GFFFFAHS+E5DZaV4n1ROJrXSzHC3dWmdYyR77Sai8C2VpdeJyL61jvIre0uJxbyglZWSMlQce4z+FTeEIzfaf4m0tRuku9KaSFR1Z4nEmB77Q1Y2h6tPoetW2p2ixu8LE7H5V1IIZTjsQSK86cZSdaMd9PyOe3M5pHUaHqWneMNYtdF1Tw9ptt9sJjhu9OhMEtuxUkMQCQyjHIPaqXw9yfGaWTkNDdW11bTjs6eUx/moP4U0+KdN0+1uB4Y0AaXe3SGKS7kumnaOM/eWLIGzI4J644o8EqLBtU12T5YNLsZVU/wB6aVTHGo9+SfoKycXGlPRpNJJPuZOLjB6WRzI+4n+6KvaRomo67cvb6Tb/AGiaNN7L5ipgZxnLEetUQMIoPYCjAPUA/WvTfNy+7udettDpj8Ptcj/4+W021PpPqUKn/wBCpp8C6iOup6D/AODSL/GuZMaZ+4v/AHyKNi/3V/KsfZ1/5193/BM3Gp/N+B048CagRn+1vD/0/tWOj/hCwn/Hz4o8Nw+320uf/HVNcvsX+4v5Cl2j0H5UvZ1v5/wDkqfzfgdN/wAIpYg4bxjoA+jSn/2Sg+GNJjG6fxrowTv5Uczt+W2uaxRij2Nb/n4/uQcs/wCY6X+xPCw+94xz/uaVKf5mj7B4KiOJde1q494NMVR/489c1j3NGPc0ewqPeo/w/wAhezfWTNSC5ttP8TW1zpks/wBlgu4pIJLhQsmAw5YAkA9an8X2n2LxtrduqhVW/k2jtgtkfzrFPzLg11XiqNtb0qx8WWqs6yRraakAP9TcRqFDH2dQCD65FTK1OtGT2at8+g37tRP5EGufJ4A8JJ2ZbuT6ky4/pTvAQ+za1d6s3EelafPcE+rFNiD8WYVzRYsFXczAcKuc4z2Arq9Vh/4RXwkdDl41fVmjub5D1t4F5jiPoxJ3EduKzqR5KfsVvJv7m7siUVGHJ3OSQYQCtLSNQsNPkmfUdFg1bcB5SzzOixkdThCN2ff0rOxS12SgpR5WbtXVmdMvjm7tv+QTo+iaaB0MGno7D/gT7jVS+8ZeJNRXbd65fvH/AM81mKL+S4FYlFZRw1GLuokKlBdAYhzl1Dn1Ykml3egx9CaSiuhJLY0SSE6/xGjHuaWiixQUUUUwDNFFFMDb8M6xb6dc3FnqsTTaTqUYgvET76gHKyJ/tIeffkVek8B6rMrTeH5LbXrTPyS2EqlyP9qMkMp9sVy1C/K25CVb+8pwfzrlnRmpudN2b37MylB3vF2Og/4QfxWf+Zc1P/vwa0tO09PAt0usa9JD/a0KF9P0pHDyCUjAklxwgXOdp5JxXJ/bbvbj7Xc49POb/GoRwxb+I9TUOlWqe7UkreS/4JLhUlpJ6AWZ2LudzOSzE9yeTRRRXWrLRG1rKwUUUUwCiiigCzp2o3Wk6jBfafM0NzbuHjcdiP5jsRXRzR+GvFDG5huo/DWpScy206M1nI3dkdcmPJ/hIIrk6KwqUVOXOnaXciULu60Z1H/CE+RmTUvEWh2loD/r0uxOzj/ZjTLH8cVX1zWLA6TDoPh1ZxpsMvnzT3ChJbybGA5UcKqjhV+tc8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Now check the adjacent edges of all the 0 1 2 4 nodes. Find minimum in them.

Here 0->6 with edge cost6 is minimum.



Here see all the nodes have been connected. Hence stop. This is an MST.

![A picture containing text

Description automatically 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7XbezqOglcf+PGuirGDjzw7nLQnVU/ZVEtERUUUVzHYFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVs6G8D6dqthNcxW0t3FGInmOFO19xUt2zisaitKc+SVzKtT9rDlvY1dbuLfZY6faSrPHYwlGmT7rux3MR7A8fhWVRRSnPnlcKVP2cOVBRRRUGpehvY08P3dgyv5k1xFMjAcDaGBB/OqNFFVKTla/QiEFBtrrqFFFFSWFFFFABWl4fvrXTdXS6vEdgit5booYxP8AwvtPXHpWbRVwk4SUkRUgqkHB9TZm0/Rtssn/AAkXmucsA1lJlj15PrmsUdKWinUmpu6ViadNwVnK4UUUVmahRRRQAVNZy28N0r3lt9qhAO6HzDHk9uRzUNFNOzuKUVJWZsSeI5o4Wh0m1t9LicYY26kyMPeQ/N+WKx6KKudSU37zM6dKFNe6gooorM1CiiigCzpt3/Z+q2l4U8wW8yylQcbsHOKhnk864llxje7Nj0yc0yiq5ny8vQjkXNz9QoooqSwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

Here 1st array is key array. Other than 0th index everything is set to infinity.

2nd is mst (False) and last is parent array (-1).

We first need to figure the min key edge value and that value is false in mst.

Here 0th index has min value in key index and in mst is false hence start from 0. here prim start always from 0 node. Make mst at 0 th True.

Here 0 node is connected to 3 and 1 find the edge with min cost.1 node with 0 is min hence take 1.

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MgAAkpIAAgAAAAM0MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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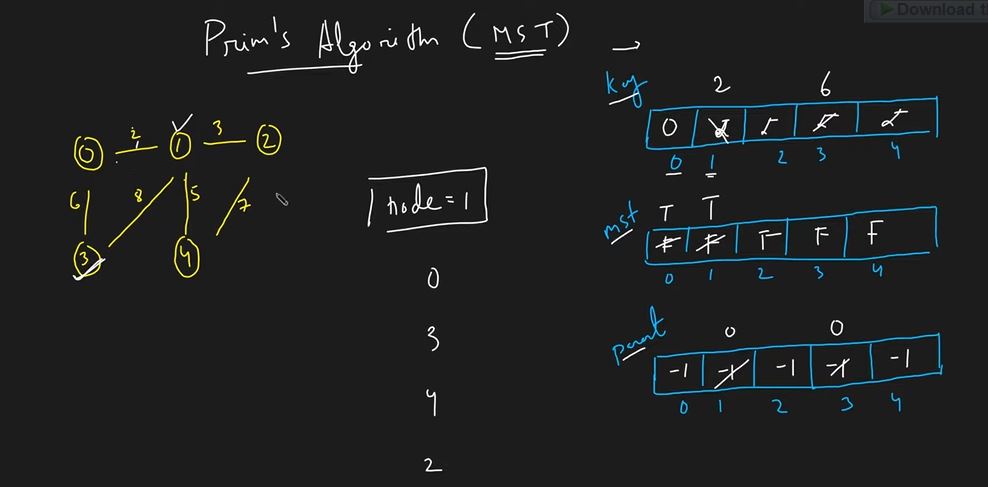
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![Diagram

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Here do the same with the next adjacent node 3.

Here now we will see in mst 0 is True hence can’t take remaining least is 2 and 6 in key value and both are false in mst. Hence, we will take 2 of node 1 and make mst as true.



Now check for node 1 connected nodes.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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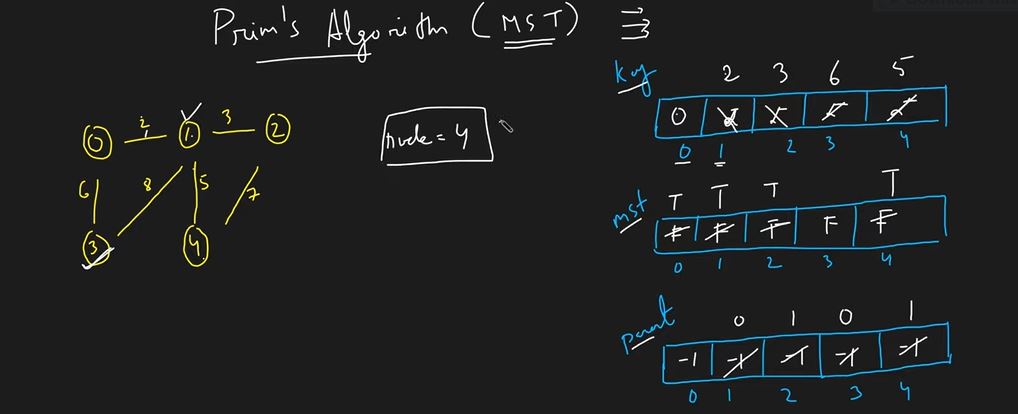
Here 1 to 3 will not change in key array as cost is 8 and we need is minimum.

Here min comes with mst is false is 1 to 2 with cost 3. take it and change mst to true for 2nd index.

![A picture containing graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NQAAkpIAAgAAAAM5NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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if already inserted value change in key array then change the parent as well.

Now check for 2 adjacent edges here see whichever node come next check its edges.



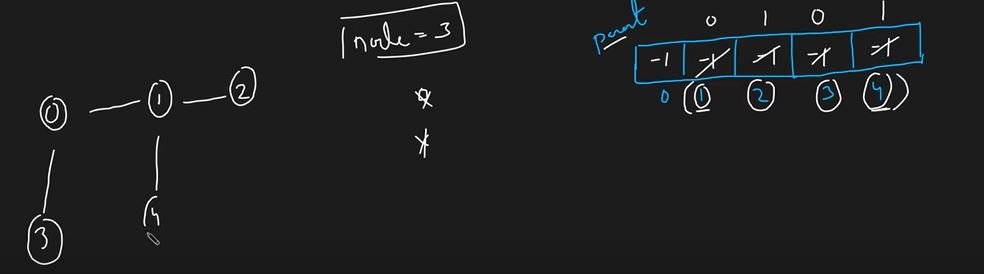
Here at 4th index is min with cost is 5 and mst change to true.

Now only remain is 3rd index and min is 6 and all mst is true hence done .

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Description automatically 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Mxs2z5t2Qx4J681zdFACKu1Ao7DFWbfUL20jKWl7c26E5KwzsgJ9cA1XooAfNPNcymW5mkmkPBeVy7H8TzUlneS2NwZoNu4oyfMMjDKQf0NQUU02ndAXbHVJbG3lgEME8MhVjHPHvAZc4Ye/NLNrF5NrA1MuqXQZWDKgABAx06dBVGir9rOyjfRDuy+urYuJJGsLBhIBmM2/yAjuBng+tPXXbsXV1PMsNx9rIM0U0eUbHTjtjtis2in7aa6j5mdP4O8VW/h3xtF4gu7JXNrDL5FvboFTzTGVTIJ+7zk965l5HlkeSXBd2LNgYGScmkorNu7uSdR4T8UW/h3Q/EUMtvDdT6hBBFDb3MHmwyhZdzq4yMDb0PrTT491WTU7+6u7bTbyC/git57Ce0BtvLix5SqgI2hMcYPrnNczRSA6GfxxrFz4lTXZPsi3sdmbFRHbhYxEY2jwEBwDtYj8uKo6Fr954fkn+yx21zb3UPkXVpeQiWGePOQGXjoQCCCCDWZRQBtzeKbt21H7NZ6dYxajZLZSwWdr5aLGHD/KM/eyBljkmmf8JTqo1bSNSjliiu9HgigtHSIYVYs7dwP3jyc+tY9FAGrJr7S+I7TWBp1havbTRy+RYw+TG7I+7JGTgk9TVm88SwTeL7rXbXRbMfaJGlNpfFrqNZGbcWGdp68j096waKAOjufF/9qeK4Nd1rSLKWWOUzzR2INqbmTO4M7ZbnIHb2rI1nUm1nXtQ1SSMRPfXMlw0anIQuxOAfxqnRQBLb3VzaOWtLma3ZhgmGRkJHocGluLy6uypu7me4KDCmaVn2/TJ4qGigAIBHIz9aktZha3CyiGGXb/BKm5T9RUdFNNp3QG3B4hEvinT9V1W1jdLa5SaZLVBG0wVgcZJxnjGTVfxLrUniPxRqWszRrE99cNN5a9EB6D8ABz3rMoolJyfMw3CiiikACg0Cg0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAAKDQKDQAUUUUAFFFeg6z4Ot/+EF0HxJOY9M0xdGTzrhIt73d40km2MKOrEKMscAAd+lAHn1FehRfCS/fw8l01xOuoSad/aCQiyY2wXbvEbXGcCQqM4xjOBmsm28D/abnT5E1BRpd3oz6u98YuIY4wRIhXPLCQBOvO4GgDkiQMZIGenNLXX6DcPafCvxLcQJEs0l5Z25d4UdhG4l3KCwOM4HIweKl0vQbKXT7WC5t4x9qtC/2li28zNuKqnbAC5P/ANet6NGVZtLoVGLkcVkbsZ59KWustLh7n4OanFMI2Fnq9osDeUodA6ys4343EEgcEnpXJ1gSFFdDZ+F7K6s4J5PF/h21aVAxhuLmRZIyf4WAjIBH1rn3ULIyhlcKxG5ejc9R7UAJRXaaNodjPYWMd3bpi8hLNcsW3+YzERonOONpJ46VgWek2M/hvVNQuNXgtr2zkjSCwcfPdhjhmXn+Hr0rerQlSSb6lONkZVFFFYEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAAoNAoNABRRRQAV11v4+nSxs9NurCO50uPSf7LubN5WC3K72dZM4+R1ZsgjPT3rka7RPh15mnWjR69aNql7pR1W20wQSbniClmHmfdDYU4HfB6UAVbzxZp+q6dD/bOgi81SCzW0S9W+kiVlRdsbPEBhnUd8gHAyKuSa/Fpfwfj8PRalbXt5qN0ZXSEEtZW3ys0TsQMM8iqSozjHvVew8BvqvheXVdN1Jp5obNrySA6dOkWxRlkFwRsLgc479AahsvCFnJ4Wsdd1fxLaaXBfyTRW8T20ssjPGQDwvReRlu2RwaAK+lazpsHgvWtF1FbwTXs8FxbSW6Kyh4g/yvkjCkuORk8Uy38SvDp9tE1sslxZxPFbTmQgRh+CdvQkAnBrd074VapqGi2l0t15d7fWjXlrafYpWRowCQHnA2I7BSQp9s4zVfT/AIfDUNL06VdftI9Q1TT5b+y09reQtIke8srP91ThDjPXpWlOpOnflY1JrYy4dW022+HdzosQvH1G8v4bmVnRRCixBwApB3EkPzkdqwCQOpAz6muxXw34cb4YW2uPrpiv5b54ifskrKSIQ4gx0zk58zpz7U3ww623w/8AFt4La2luEayhR54ElMayO6vt3A7SR3HNZiKdl8QPFmnWUNpY69dwW8CBIo02YRR0Aytc88hllZ5G3O7FmJ6kk5Jrr9I8PWNxYWkVxDzd25c3TSEMkjEiNEHQ/dJOe1M09luPhLryTW9sz2N/ZiCYQKJV8xpN48zG4g7RwTxit6lGVNJvqVKLiZ1p4mktrG1ie2WWaxDi1lZyBHu7lehIycVLpup6LafD7WbK6tVuNbvrqEW0rQ5+zQryzK/YseMVz1dBYeEH1CxhuR4i8N2wmXd5V3qqRSR+zqR8prOdSc0lJ7CbbOfop0sflTPHuRyjFd0bblbBxkHuD2Nalp4T8R39rFc2Ph/Vbm3mXdHNDZu6OPUEDkVAjJorasrOzbS9VhurOZdQtIGkLu5XyyHC7dvryc5qPT9DjvfDOq6s+qWlu+nNGFs5G/e3O84ygz271c4OKT7jasZNFFFQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooABQaBQaACiiigAr0jUfGWjaXYaJNp9l9r1qHw0lil6l5iO3MiOrho9vMiBjjkD5ua83ooA9Ag+JdtHp4WTSLqS9/sY6Rn+0WFtHH5flh0h24DEYJ5x1x1rk7zWhdeF9G0f7Pt/sx7hvN3583zWVsYxxjb6nOay80UAdifGlle6PYw6zp+oTXthZizhltNUa3ikRQdhkjCnJXP8JGQOah03xv9g1Dw9dGw8w6Jps1ht87HneYJfnzj5ceb056dea5SigDe03XrGLwZJ4e1bTZbuNbk3ltNBdeS0Upj8s7htYMuADjg8dal8P6rplt4S8Q6Tqs1xFLqH2Z7d4IBIC8LM2GywwDkDPOOeK5yigDes/E32fT7OKW2aW4sVcWr+bhFLDGWXHJGeOaktNW021+HOqaV5ty+p6jeW8pj8kCKNIi5zvzkk7+mBjFc7RWs6s6iSk9htthXR2HjzxFplhBZ2V3bpBbqFjVrGByB9WQk/ia5ylrIQ6WR5p3mkwXkYuxAxkk5PHapo9S1CGNY4dQu441GFRLh1VR7AHiq9FAGrpmqWtnb3aXlnNcvdIY5HFxtypIPoecjrVzT7rw/B4C1uO8tY7jXLq5hTTyyHdaxDl5A2Mc/dx1Nc7mirlOUkk+g73CiiioEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAAoNFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABS0UUAFBoooASiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//2Q==)

Here n is vertex and m is number of edges.

<https://takeuforward.org/data-structure/minimum-spanning-tree-mst-using-prims-algo/>