**BÁO CÁO ĐỒ ÁN THỰC HÀNH 1**

**MÔN CƠ SỞ TRÍ TUỆ NHÂN TẠO**

**1. Thông tin nhóm:**

|  |  |  |
| --- | --- | --- |
| Số thứ tự | Tên | Mã số sinh viên |
| 1 | Nguyễn Anh Hào | 1712418 |
| 2 | Đỗ Văn Hiệp | 1712429 |
| 3 | Lê Đức Hòa | 1712449 |

**2. Đánh giá mức độ hoàn thành:**

Mức 1: Cài đặt 1 thuật toán: Breadth First Search

Mức 2: Cài đặt 3 thuật toán: Breadth First Search, A\*, Depth First Search

Mức 3: Đi qua tất cả các điểm đoán: dùng thuật toán A\*

Mức 4: Các đa giác thể di chuyển được: dùng thuật toán A\*

**3. Chi tiết thuật toán**

**3.1. Các qui ước:**

- Chỉ xét các điểm trên đường đi ở tọa độ nguyên

- Có thể đi ngang, đi dọc, đi chéo. Mỗi bưới đi 1 đơn vị

- Chi phí đi ngang, đi dọc là 1. Chi phí đi chéo là 1.41

Cách tránh đi vào đa giác hoặc đi xuyên qua đa giác:

Tư tưởng thuật toán: Xét điểm đi tiếp liệu có thuộc đa giác hoặc xuyên qua đa giác

Giả sử ta có hình sau và 2 điểm sau

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Xét 2 điểm: X(a, b) là điểm đang được mở, Y(c, d) là 1 điểm lân cận mở từ điểm X

B1: Viết phương trình đường thẳng XY

B2: Viết phương trình đoạn thẳng của các cạnh đa giác , ví dụ như tam giác

có 3 đỉnh ta sẽ viết được 3 phương trình đoạn thẳng các cạnh của tam giác

tương tự cho các đa giác còn lại

B3: giải hệ phương trình đường thẳng XY giao với các phương trình các cạnh của các đoạn thẳng của tập đa giác đó (giải hệ 2 phương trình 2 ẩn)

+ Trường hợp giao nhau: là có nghiệm mà nghiệm là (x,y) thuộc khoảng

a<x<c (hoặc c<x<a) và b<y<d (hoặc d<y<b) và nằm giữa cái cạnh trong tập

đa giác đang xét thì ta cho không đi được.

+ Trường hợp hệ vô số nghiệm : vì 1 đỉnh của đa giác đc cấu thành từ 2 cạnh của đa giác cắt nhau ( nên đương nhiên nó sẽ cắt cạnh còn lại cấu thành đỉnh đang xét ) nên ta không xét trùng

+ Trường hợp không giao nhau: nghiệm của hệ nằm ngoài 2 đoạn thẳng hoặc hệ vô số nghiệm: Điểm tiếp theo không năm trong đa giác hoặc không xuyên qua đa giác.

**3.2 Mức 1: Breadth First Search:**

BreadthFS(graph)

Đầu vào: graph (chứa điểm Start, Goal, bản đồ)

Output: danh sách các điểm trên đường đi tìm được, chi phí đường đi. Trả về tập rỗng, chi phí = 0 nếu không tìm được đường đi

Tư tưởng thuật toán:

Tạo node với node cha là none

start = TạoNode (tọa độ, None)

Khởi tạo hàng đợi, tập đóng

queue=[start]

close=[]

Loop do:

Nếu hàng đợi rỗng: BFS không tìm ra lời giải. Return tập rỗng, cost = 0

Lấy node đầu tiên ra khỏi hàng đợi (Current Node)

Nếu Current Node tọa độ trùng với điểm đích:

Con trỏ quay lui truy vết từ Current Node tới node gốc (start) để tìm được danh sách điểm trên đường đi, chi phí

Return Đường đi, chi phí

Xét tất cả cả node trong tập close: nếu trạng thái Current Node đã có trong close: bỏ qua (continue)

Nếu chưa tồn tại trong tập close: mở Current Node, đưa tất cả node con vào queue, bổ sung Current Node vào tập close.

Test thuật toán:

![A screenshot of a cell phone

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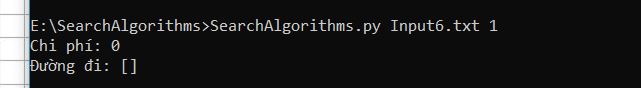
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Trường hợp không có đường đi:

![A screenshot of a cell phone

Description automatically 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SxaOdEY4DFbKMgH24rD+FXxN8MeJtel03TrfVpdbu4ftF7qF/FGPO2YG0bXO1RuO1AABk9ySVHVr0X5f0/wHLRf15HrlFFFABRRRQAUUUUAf/Z)

Chi phí:



**3.3 Mức 2: Bổ sung 2 thuật toán A\*, depth first search**

**Thuật toán A\*:**

Đầu vào: graph (chứa điểm Start, Goal, bản đồ)

Output: danh sách các điểm trên đường đi tìm được, chi phí đường đi. Trả về tập rỗng, chi phí = 0 nếu không tìm được đường đi

Hàm heuristic: Khoảng cách Euclide từ điểm đang xét đến điểm goal

Tư tưởng thuật toán:

Tạo node với node start cha là none, g: chi phí là 0, heuristic là Euclide(start,goal), Hàm f =g+h

start = TạoNode (tọa độ, None, g = 0, h = Euclide(start,goal), f = g+h)

Khởi tạo hàng đợi ưu tiên, tập đóng

Priority\_queue=[start]

close=[ ]

Loop do:

Nếu hàng đợi rỗng: A\* ko tìm thấy đường đi. Return tập rỗng, cost = 0

Lấy Node có f thấp nhất khỏi hàng đợi (Current Node), đưa vào tập đóng

Nếu Current Node có tọa độ trùng với điểm đích:

Con trỏ quay lui truy vết từ Current Node tới node gốc (start) để tìm được danh sách điểm trên đường đi, chi phí

Return Đường đi, chi phí

Nếu không: Tạo tất cả các node từ các cả các điểm lân cận với Current Node

Với mỗi Sub trong Neighbours(Current Node):

sub\_g = g + Chi phí từ tọa độ Current Node tới

sub\_h = Euclide(Sub,goal)

sub\_f = g + h

subNode=TạoNode(Sub, CurrentNode, sub\_g, sub\_h, f)

Nếu tồn tại 1 node trong close trùng trạng thái với subNode: bỏ qua subNode

Nếu chưa tồn tại trong close:

So sánh trạng thái các node trong hàng đợi ưu tiên (Pnode) với subNode

Nếu tồn tại 1 node trùng trạng thái với node con:

Cập nhật f, g, h, node cha của node trong hàng đợi ưu tiên bằng f,g,h, node cha của SubNode nếu như f(SubNode) < f(Pnode)

Bỏ qua SubNode node nếu f lớn hơn

Nếu SubNode không tồn tại trong Hàng đợi ưu tiên:

Bổ sung node con vào hàng đợi ưu tiên

Test thuật toán:

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5ndXllbiBIYW8AAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM4NQAAkpIAAgAAAAM4NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Trường hợp không có đường đi:

![A screenshot of a cell phone

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CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAG+Yn99fzo8xP76/nUP2Zv+ev8A5DX/AAo+zN/z1/8AIa/4UATeYn99fzo8xP76/nXNeHLm4vbrVlnmLbNSljQlQdqrHFgAY4HJ6dyT3rf+zN/z1/8AIa/4UATeYn99fzo8xP76/nWRaatpd/q11pdlrFrPf2YBuLaMoXiz6jtU2qCW00m7uIpvnihZl/drwQOO1AGj5if31/OjzE/vr+dYnhoy3fhvTpJZmZzZwMzMAxYmNSSSeSc1Y1a/sNB097/WdTgsbRCA00+xFBPQZNAGn5if31/OjzE/vr+dVYFS6t457a6SWGRQySIqlWB6EHuKxfFc1xY2+miC4ZfP1K3ifaoUlTIMjI7Hv7cd6AOk8xP76/nR5if31/OsppmW+ihAG143cnvkFQP/AEI1ajQyOEVgo2Z+6Dnk+tAFvzE/vr+dHmJ/fX86z9SubXR9Mn1DU76O2tLdC8ssiqFUD8KxfBfjTQ/H2lyXvhzUPNWFyksUkSrJGe2V9D1BoA6rzE/vr+dHmJ/fX865zxpLc6d4O1G5tbho5ViIV1UArnjIPY+9bSRtJvbzAgVyMbF4AP0oAs+Yn99fzo8xP76/nXA6r8XPAWjai1jfeKrXz0ba4iiMoQ+hZVIrqtH1HT/EGnJf6JqkF9ayfdlgCsPp7H2oA1PMT++v50eYn99fzrm9auLi18SaFbxznypnnaRQoAbbA5AOOoB5x0zj0rdW3ZlB83qM/wCrX/CgCfzE/vr+dHmJ/fX86h+zN/z1/wDIa/4UfZm/56/+Q1/woAm8xP76/nR5if31/OuYsrmeTxjrVtLMzxW8VsI06Bc+YScDufX2HoK1LGU3C7nA4mdMAdlcqP0FAGn5if31/OjzE/vr+dYeqa7pOg2MN1r+sWmmxzHajXLIgZvQZ61k/wDCyPA//Q5aR/3/AI6AOy8xP76/nR5if31/OsjR9W0vxDatc6FrFrqEKttZ7ZkcKfQ46VQnuLhPHsNkZmMA02SXYAAC3mIMkDqcflk+poA6bzE/vr+dHmJ/fX86oUUAX/MT++v50eYn99fzqhRQBf8AMT++v50eYn99fzqhRQBf8xP76/nR5if31/OqFFAF/wAxP76/nR5if31/OqFFAF/zE/vr+dHmJ/fX86oUUAX/ADE/vr+dHmJ/fX86oUUAX/MT++v50eYn99fzqhRQBf8AMT++v50eYn99fzqhRQBf8xP76/nR5if31/OqFFAF/wAxP76/nR5if31/OqFFAF/zE/vr+dHmJ/fX86oUUAX/ADE/vr+dHmJ/fX86oUUAX/MT++v50eYn99fzqhRQBf8AMT++v50eYn99fzqhRQBf8xP76/nR5if31/OqFFAF/wAxP76/nR5if31/OqFFAF/zE/vr+dHmJ/fX86oUUAX/ADE/vr+dHmJ/fX86oUUAX/MT++v50eYn99fzqhRQBf8AMT++v50eYn99fzqhRQBf8xP76/nR5if31/OqFFAF/wAxP76/nR5if31/OqFFAF/zE/vr+dHmJ/fX86oUUAX/ADE/vr+dFUKKAPAJfjv4qbxd9ohjsktcfJ4cf/j5aL+8ZMYEvfZnp2rtfgD4617xzpGtz+JLv7RLa3ipCPKVCilc4IUD9a+Sv7JvH0VtcM6GMTbSS58wtnr09T1zXv8A+zfpU3iK8uPE0uo3FteafN9nuFgwFv0ZMjzR3YH+Lqe/rQB7N4R/4/tZ/wCwtP8A+i4q87+OHxuTwnFN4c8LTLJrbrtuLheRZg9h/t/yr0Twj/x/az/2Fp//AEXFXhP7R/wttdImk8a6VMI0vJwt5bPk5kb+ND79x+VAGN8DNW8G+F9Yl8V+MPFHlao4eOK1EcrkBvvPIwU5J7DPua+i7Pxx4d8beF9Xm8M6kl8ttCyzbUZShKnHDAHnB/Kvm74M/Cvwv8TdLvRf3Oq2l/YsPMMLx+U6tnBGVyDxyK978LfC7R/hn4V12LRri7uWvoS0r3LKSNqnAGAPU0Ab2jarZaH4BttT1W4W2s7XTreSaV84VfKX0ryf4teNfhp8SfB/9nR+Lltr22fz7VzBNsL4I2uNvQg9e1en2/h608V/DGPQ9SMi217ptvHI0Rww/dIcg/UCvIPGX7PXgzwb4Q1DXrnUdbuEs49/lRvECx6AZK8cmgDlPgp8bJfBl1H4e8TTtPoMj7Yp8ljZknqPVD3HbqK+j/GM8VzYaHPbyLLFJqdq6OhyGUuCCD3FfIHwn+Hy/EfxsNMkufslnChnuCOXaMHG1eMZOepr658S6fbaTofh7TrCPyrW11C0hiTOdqqwAH5CgDWk/wCQvb/9cJf/AEKOp7rUrPR7OfUNTuI7a0t4N8sshwqgE1BJ/wAhe3/64S/+hR1Fr3hrTvF2iXWi61EZbS6gAYKcMpDEhgexB5oA83174gfD34pfDfU49Vv4rQQPK1ta3V2IZZXjU+W+0Nkgk8A1xn7PWo+CvDHhe/8AEGsana2muB5YhFLebGkhCqwAjJwSSDg4rft/2bvDeieC9Xm11pNRv7dLia3uIpXjAQKSgZemeOa5j4KfCDwx48+HF5qWsW8zagt1LBFKs7Kq4RSuVHXBagD1WT4g6L8RPhLqWo6LIVdEC3FrIR5kDZ6EenoehrK/aE8VX/h74dLZaTK0M+r3ptWlQ4Kx4JYA9s8D6E1HpPwosfhn8K9W/ei71a7iH2q6AIUgHhFHZR+Zrc+M/gtfGfw1vkSVYbrTZXvYJHzjKg7lOPVSfxxQBW8JfALwTpXhi3t9X0mLVL6SIG4uZ2bJYjnbg/KB2xzXD+H9Pf4QftHWvhnSLmWTQtfiDC3kbPlkhtv4qykZ9DWf4V/alfTPDcFj4i0SW+vbaMRrcwTBRMAMAsCOD6kZrD8AePD45/aR07XvEtu2+TdDYwQEFLc7SEznqBliT1yc0AfR/iT/AJG/w79bn/0Q9Z/xE8MeKPEegzw+GPEJ09XsmiNl5KgTueh837yfhWh4k/5G/wAO/W5/9EPR4k8AaP4vntrnVZdQSSCLy1FpeyQDGc8hSMn3oA8w8B/Dv4heEfD+oy6544TQYhIJWdgl2uwLyxaT7mPauv8AC1rr2sXsd3YfFW31yztpl+0w21hAQw67CynK5HeuUs/A3gjxjJqmg6PP4jtbxYJF867vnliXnbnYZDu5PQitr4ffAPTvBcvn3msXl/cR3KXEJhZrdFK9mUMQ/wCNAHWaf/yPniL/AK52v8pK1dK/1X/bzL/6NasrT/8AkfPEX/XO1/lJWrpX+q/7eZf/AEa1AHBfE2zXUPEXge1eBbjzXv1WJ1DBm+zNjg++K8U+FGlXvhK91t/FfgrWbpbuwaC3A0lptkmevI4+or3H4hXD2ni3wHcxY3wyX0i5HGRbMR/KqfhGw+JHivwhpmu/8LBjtf7Qt1n8gaPE3l57ZzzQBz9l4dvPhz8MdA8caXG+matZWsMWr2EibUvomcLh17SDcCG6+ten3DbviVCw76S5/wDIqV5R4+v/ABTp+n+KfDHiXXo9bhTSrW+jlFmkBRjdqmML14FerS/8lGt/+wO3/oxKAN2iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAyJ/FGj2wvPOuirWVxHbTR+S5cSPjYqrty+7cMFQQefQ4168r1u+V/F1x4zEf+i+Hr+LSpLU/euCx2NKecbkNwNme3mZxuGN/W/AP9r61cX32PwhJ5xB3X/hr7TMcAD5pPPXd09BxgULVJ/10/zuD3sXvGviLVfDtlbz6ZpkVzC00ST3M821YQ80cYAQfM7HeSOgG0knoDb8RyeILe2mutDutLgitrdpWS+t3kMzAE7dyyIIxgfew/Xpxzl/EKLyPh8IsRjy7uwXESbFGLqIcLk4HoM8VyPxS+JOi+HPGNvofi231C40n7IlybWxRCLpy7DbLudcoAn3BwxPzZAwU9rJ9X+RS2u0elWt/d6x4WtdQ0tYra5vbaOaIXSl1i3gH5gpBbAPQEZxjIzkZema5rS3Wu6bf29tqeoaXHHNCbBfs63IkUlUKyO2xsqRksRgqeOlcvr/AMXIofB17quk2c0EKadZ3sU0gVpES4laP/V/d3KFJA3YJwDxVj4T+PfC/ipb+w8LWeqQyW+Li7uNRVDJcu/G9mDsWb5e+AAABgAAVu3YjVJXN/w/rGu+I/Dl5KP7P0zUoL+e15ie6hQRSlem6MscDrlfXHaodIvPFepXGs239p6MwspUt4LtdKlCmUDdKCn2glgAVAIYfNu9OYfCF5/Z/hbxHebd/wBn1bU5dvrtmc4/Sr/h7OhfDa3upAJZksWvZyP+WkrgyyH8WZvzqbpR5n0Sf3r/AIDKafNyru19z/4YXwxqGuXuratDq11p93aWUi28c1pZPbl5cbpBhpZMhcqM8c7h2rpaw/BdmbLwZpiSENNLALidx/HLJ+8dvxZia3KqSadn0JTTV0FVb/UrXTEhe9lMSzzpbxnYWBdzhQcDjJ4yeKtVk+KNMOseGL+yjcRzPEXgkP8AyzlX5o2/BlU/hUtpK7KSu7IuQala3OoXVlBIXuLPZ56hDhNwyo3YwTjnAORkZ6irLEqpIUsQMgDqa4Tw9pMnib4dG8uYtMkudem/tGVNQsvtcADEbFMe5MlY1Rc54IzWr4V8Jf8ACOXVxL9m8Ow+cgXOkaJ9hY4OfmbzX3D2wKppp2ZN9Lob4Z8Ra1rVxrtvqOmW2n3enyxxw24nMmN8KyASOBjOWwdoIHYt1Mml6prVv4sOh69NYXhlsjeQ3FlbvBs2uEZHRpJOu5SGyOjDHFYn9rPoN38SNWhjWWSxaOdEY4DFbKMgH24rD+FXxN8MeJtel03TrfVpdbu4ftF7qF/FGPO2YG0bXO1RuO1AABk9ySVHVr0X5f0/wHLRf15HrlFFFABRRRQAUUUUAf/Z)

**Depth first search:**

Đầu vào: graph (chứa điểm Start, Goal, bản đồ)

Output: danh sách các điểm trên đường đi tìm được, chi phí đường đi. Trả về tập rỗng, chi phí = 0 nếu không tìm được đường đi

Tạo node với node cha là none

start = TạoNode (tọa độ, None)

Khởi tạo stack, tập đóng

stack=[start]

close=[]

Loop do:

Nếu hàng đợi rỗng: DFS không tìm ra lời giải. Return tập rỗng, cost = 0

Lấy node trên cùng ra khỏi stack (Current Node)

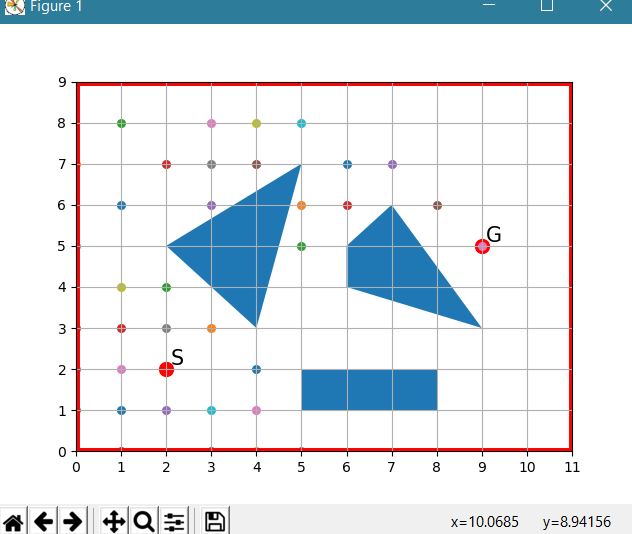
Nếu Current Node tọa độ trùng với điểm đích:

Con trỏ quay lui truy vết từ Current Node tới node gốc (start) để tìm được danh sách điểm trên đường đi, chi phí

Return Đường đi, chi phí

Xét tất cả cả node trong tập close: nếu trạng thái Current Node đã có trong close: bỏ qua (continue)

Nếu chưa tồn tại trong tập close: mở Current Node, đưa tất cả node con vào stack bổ sung Current Node vào tập close.



![A picture containing device

Description automatically 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MCDgggg1UooDc07vWJ9Zu7QazMRawkIEtbeONYkLZbZGoVATkntk9TUniHWl1vUo2iiNtY2sS21pBncYoV6ZPdjkknuSayKKAOm8U+JLfVtJ0XSrFZpLfSIGiW6uY1SWXcQcFVJCqMYA3H1zXM0UUB5G5pmt26eHb7Q9WikltZW+02rxAb4LgLgHnGVYfKw9MEcjmtY+IdR02za2sJIbcMCPOjtohOAeoE23zACOMBumRWZRRuB03gnxHbeFNTn1WUTzXKwPFDarGpim3DB8xicgDg4CnOOormicsT0ye1JRR1uHQs2N9Lp10J7dLd3AIxcW8c68/7LqV/SrF1qs2salBLrdxI0KbYyII1AiiB+7HGNqrjkhRgZ+tZ1FAGv4i1oa1qMbQQ/Z7K1hW2s4CcmOJegJ7sSSSfUmr2q6tpJ8F2WiaXLezyQ3klzJLc2yQj5kVdoCyPn7vXiuaoo6W/ruHW/wDXYKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAr0T4D/8AJa9C/wB25/8ASaWvO69E+A//ACWvQv8Aduf/AEmloA+waKKKAOQ1z/kb2/684v8A0OWr1t0qjrn/ACN7f9ecX/octXrbpVS3Iht9/wCZoR9BUtRR9BUtSWLRRRQBTn714b+0N/yA9L/6+m/9ANe5T968N/aG/wCQHpf/AF9N/wCgGqjuRPb7vzPA6KKKksKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAr0T4D/8lr0L/duf/SaWvO69E+A//Ja9C/3bn/0mloA+waKKKAOQ1z/kb2/684v/AEOWr1t0qjrn/I3t/wBecX/octXrbpVS3Iht9/5mhH0FS1FH0FS1JYtFFFAH/9k=)

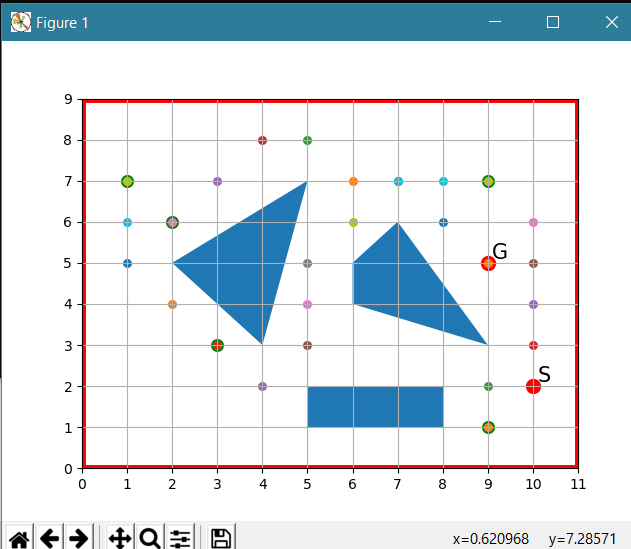
**3.3 Mức 3: Đoán tất cả các điểm trên đường đi**

Tư tưởng thuật toán:

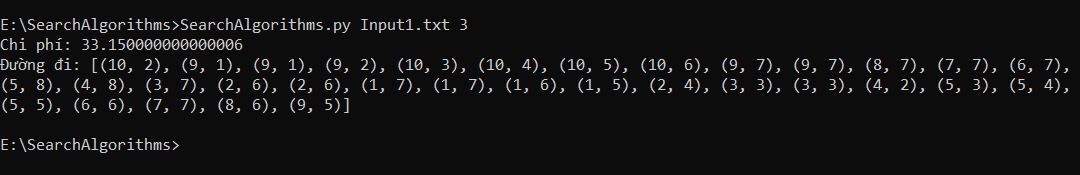
B1: Tìm thứ tự đoán các điểm trên đường đi bằng vét cạn sao cho tối ưu nhất dựa trên khoảng cách euclid giữa các điểm.

B2: Dựa vào thứ tự tìm được, và bản đồ, lần lượt tìm đường đi giữa 2 điểm liên tiếp trong tập thứ tự bằng thuật toán A\* để đến được điểm goal.

Test thuật toán:



Điểm màu xanh lá được là các điểm đoán:



**3.5 Mức 4**

Các đa giác di chuyển không được vượt biên với độ dời ngẫu nhiên so với vị trí hiện tại

Các đa giác có thể đè lên nhau

Thuật toán:

Dùng thuật toán A\* để giải, mỗi một nước đi: gọi lại A\* với bản đồ đã được thay đổi

Link video: https://drive.google.com/open?id=1-m485d6U1-gDgy0Qu1dv5mGe\_UCmK4FX

**4. Cách chạy chương trình:**

Các file input phải cùng thư mục với file sourcecode

Chạy bằng cmd

B0: Thiết lập ứng dụng mở file py ở chế độ default để mở bằng cmd

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5ndXllbiBIYW8AAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5NQAAkpIAAgAAAAM5NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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XF/jXPaP4t1DX9fk8P2l8Irm21C7a7ujEuVginKrDGCMM5UpuODtU56sDXoVH1qpZO0f8AwGP+Q3haabV5af3pf5nPf2X4t/6HH/ylxf40f2X4t/6HH/ylxf410NFH1qp2j/4DH/IX1Wn3l/4FL/M57+y/Fv8A0OP/AJS4v8azPEMni3QdBuNS/wCEq+0eRt/d/wBnRLuywXrz6+ldpXNfEP8A5EPUf+2X/o1K3w1eU68ISUbNpfDHv6GGJoRhQnOLldJv4pdvU7asuSS4kvLlVupI1jcKqqqf3FPdT3JrUrL/AOX68/66j/0WleceiH+k/wDP9N/3zH/8TR/pP/P9N/3zH/8AE0+igBn+k/8AP9N/3zH/APE0f6T/AM/03/fMf/xNUPEOrLoPhrUdWdPMFlbPPs/vbVJxVDT9P8RWtzZ3FzrY1COUf6bBLCkcceVJBg2Ju4bAw7NkE85FAbG9/pP/AD/Tf98x/wDxNH+k/wDP9N/3zH/8TWHb+LI5dStbW60jU7FL12S0uLqJFSZlUvjaHLodqsfnVenrxVXTfH+m38CXE9nf6fayWL38M93GoWWJMbyArM2V3DggZ6jI5oHZ3sdN/pP/AD/Tf98x/wDxNH+k/wDP9N/3zH/8TWFB4vhbTZ72/wBL1PTkiWNkW6hXM4kO1AhRmG4tgbSQwyMgZqnrfimVNLuFtY59O1G2urJZYbhY2YRTXCpkbSykMN44ORg9OKdnewlqdT/pP/P9N/3zH/8AE0f6T/z/AE3/AHzH/wDE0+ikAz/Sf+f6b/vmP/4mpbCSY3U8U07SqqIy7goxktnoB6Cm0tj/AMhG5/65R/zegCfUZXgsXkiba4K4OM4ywFY/9oXn/Pw3/fC/4Vq6t/yDZPqv/oQrCoAsf2hef8/Df98L/hR/aF5/z8N/3wv+FV6KALH9oXn/AD8N/wB8L/hR/aF5/wA/Df8AfC/4VTnmW3t5Jn+7GpY/hVK2vJoYLj+0CWkhQSnaAMqRnA+hBH4UAbP9oXn/AD8N/wB8L/hR/aF5/wA/Df8AfC/4VlDU0CO0sE0W2IyqHAy6jrjB+nBx1qObUibScrFLBKIGliMij5sDqOT7cGgDZ/tC8/5+G/74X/Cj+0Lz/n4b/vhf8Ky/7QjWNt6uXR1QqAMsWxgj25/Q1coAsf2hef8APw3/AHwv+FH9oXn/AD8N/wB8L/hVeigCx/aF5/z8N/3wv+FFV6KAOpooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArlviV/yTzU/wDtl/6NSuprK8S6L/wkXh250v7R9n8/Z+92b9u1w3TIz0x1rfDTjCvCctk0/wATDEwlOhOEd2mvwJKKwv8AhGfFH/Q5f+UuL/Gj/hGfFH/Q5f8AlLi/xq/YU/8An7H/AMm/+RI9vU/59S/8l/8AkjdorC/4RnxR/wBDl/5S4v8AGj/hGfFH/Q5f+UuL/Gj2FP8A5+x/8m/+RD29T/n1L/yX/wCSNa8tINQsZ7O7QSQXEbRSof4lYYI/I1zkHhLUH/s+11fXBfaZpsqSwQi0EcsrR/6vzpNxD7SAflVMkAn0q7/wjPij/ocv/KXF/jR/wjPij/ocv/KXF/jQqFNO/tY/+Tf/ACIe3qNW9lL/AMl/+SKreDttkgt74RX1vqc2o2135OfLMkjM0ZXd8ylXKHkZ68EDHT1hf8Iz4o/6HL/ylxf40f8ACM+KP+hy/wDKXF/jR7Cnt7WP/k3/AMiHt6jd/ZS/8l/+SN2isL/hGfFH/Q5f+UuL/Gj/AIRnxR/0OX/lLi/xo9hT/wCfsf8Ayb/5EPb1P+fUv/Jf/kjdrmviH/yIeo/9sv8A0alWP+EZ8Uf9Dl/5S4v8araj4I17VbCSyv8Axb5tvLjen9mxrnBBHIYHqBW1CFKnWjN1FZNP7XR/4TGvOrUoygqbu019nqv8R29Zf/L9ef8AXUf+i0rUqhJYTm5mlhuI1WVg21oi2PlA67h6V556A2il+w3f/P1D/wB+D/8AF0fYbv8A5+of+/B/+LoArX9jBqenXFjeJ5lvcxNFKvqrDB/Q1j2GhaxFdWh1PxA13a2WfKjhtzBJMdpUGdg5EmAc4CqM4OOK6H7Dd/8AP1D/AN+D/wDF0fYbv/n6h/78H/4ugDhNM+HBsNe03UpbzT5ZNPldxcJpm27uQ0bp++nMjFz84OQACR06YuJ4ChbSdM067vWlgstKn0yTbFtMqyiMFxydpHl9OevtXX/Ybv8A5+of+/B/+Lo+w3f/AD9Q/wDfg/8AxdHS39f1qO7vc5S48JX2seHrrSvEusR6hHKkSxeXYrGiGNtwdlZm3sSBuGQpAwFGTmrZ/D6O3026t9+lWstxPbSk6ZpCWkYEMqyY2hizE4IyXIGeAOc9r9hu/wDn6h/78H/4uj7Dd/8AP1D/AN+D/wDF0763JtpYSil+w3f/AD9Q/wDfg/8AxdH2G7/5+of+/B/+LpDEpbH/AJCNz/1yj/m9H2G7/wCfqH/vwf8A4upbS0kgmllmlWRpFVfljK4wT7n+9QAmrf8AINk+q/8AoQrCro7u3+1WrQhtm4jnGcYIP9Kz/wCxH/5+V/79f/XoAzKK0/7Ef/n5X/v1/wDXo/sR/wDn5X/v1/8AXoAxbu2+1wiJmwm8FwRncAc4/GqV7pcUcE0tjEkTeRIjRxRgeZkcDjvkV0/9iP8A8/K/9+v/AK9H9iP/AM/K/wDfr/69AHMXFlO1jNJNJ50i2zxxoke3qO/JyeB/hTzp8s8LfaZwzGBok2x7doYck8nJ4HpXSf2I/wDz8r/36/8Ar0f2I/8Az8r/AN+v/r0Bsc2bXzNZjkG8JDGN5KkKzc7ceuAzfpWjWn/Yj/8APyv/AH6/+vR/Yj/8/K/9+v8A69AGZRWn/Yj/APPyv/fr/wCvR/Yj/wDPyv8A36/+vQBmUVp/2I//AD8r/wB+v/r0UAc2fi54eXrBf/8Afpf/AIqm/wDC3/Dv/PG//wC/K/8AxVFFd/sIHlfWancP+FweHP8Anjf/APflf/iqT/hcHhz/AJ43/wD35X/4qiij2EA+s1O4o+MHhxukN/8A9+V/+Kpf+FveHf8Anjf/APfpf/iqKKPYwH9Yqdw/4W94d/54X/8A36X/AOKo/wCFveHf+eN//wB+l/8AiqKKXsYD+sVO4f8AC3fD3/PC/wD+/S//ABVOHxa0Bulvf/8AfpP/AIqiip9lAft6ncX/AIWxoOP+Pe//AO/Sf/F07/hauh/8+1//AN+0/wDi6KKn2cexSrT7iD4raEeltf8A/fpP/i6D8V9BAybe/wD+/Sf/ABdFFLkj2H7afcQfFjQWHFvf/wDfpP8A4uk/4W1oG7H2e/z/ANck/wDiqKKfJHsL20+4o+LGgnpb3/8A36T/AOLpf+Fr6D/z73//AH6T/wCLoopckew/bT7h/wALW0LH/Htf/wDftP8A4um/8La0DOPs9/8A9+k/+KoopcsexXtJ9xf+Fs6BjP2e/wAf9ck/+KpP+Ft+H/8Anhf/APfpP/iqKKOWPYXtJ9xP+FueHv8Anhf/APfpf/iqT/hbvh7/AJ4X/wD36X/4qiiq5I9g9rPuKfi54fHWC/8A+/S//FU4fFfQSuRb3+P+uSf/ABdFFTyx7B7SfcB8WdAP/Lvf/wDfpP8A4uk/4W34fH/LC/8A+/Sf/FUUUckew/aT7gPizoBGRb3+P+uSf/FUD4taAelvf/8AfpP/AIqiijlj2D2k+4f8La0DOPs9/n/rkn/xVH/C2/D4x+4v+f8Apkn/AMVRRRyx7C9pPuIfi34fHWC//wC/Sf8AxVH/AAtzw/jPkX//AH6T/wCKooo5Y9g9pPuL/wALa0D/AJ97/wD79J/8VR/wtrw//wA+9/8A9+k/+Kooo5Y9h+0n3F/4WxoP/Pvf/wDfpP8A4uj/AIWxoP8Az73/AP36T/4uiijlj2D2k+4n/C2tA/597/8A79J/8VS/8LZ0Af8ALvf/APfpP/iqKKOSPYPaT7h/wtnQP+fe/wD+/Sf/ABVH/C2dA/597/8A79J/8VRRT5I9g9pPuJ/wtrQP+fe//wC/Sf8AxVH/AAtrQB/y73//AH6T/wCKoopcsew/aT7h/wALa0Af8u9//wB+k/8AiqP+FtaB/wA+9/8A9+k/+Kooo5Y9g9pPuJ/wtvw//wA8L/8A79J/8VSH4veHh1gv/wDv0v8A8VRRRyR7C9pPuH/C3vDuP9Rf/wDfpf8A4qk/4XB4c/543/8A35X/AOKooqvZx7C9rPuN/wCFxeG/+eV//wB+V/8AiqU/GLw2OsV//wB+V/8AiqKKfs49g9rPuH/C4vDf/PK//wC/K/8AxVH/AAuLw3/zyv8A/vyv/wAVRRR7OPYPaz7if8Lk8Nf88r//AL8r/wDFUH4x+Gh1iv8A/vyv/wAVRRS9nHsP2k+4w/GjwwOsd/8A9+F/+Kp3/C5fDOM+Xf4/64r/APFUUU/Zx7B7SfcB8ZvDJ6R3/wD35X/4qiiij2cewe0n3P/Z)

B1: Vào Thư mục chứa file sourcecode. Gõ “cmd” tại thay đường dẫn và nhấn enter để chạy cmd

A screenshot of a social media post

Description automatically generated

B2: Nhập SearchAlgorithms.py <Tên file> <S>

Với <Tên file>: Là tên của file input. Ví dụ Input0.txt

<S>: là tham số để chạy thuật toán:  
S = 0: Chạy thuật toán mức mức 1 với breadth first search

S = 1: Chạy thuật toán mức 2 với A\*

S = 2: Chạy thuật toán mức 2 với Depth fist search

S = 3: Chạy thuật toán mức 3 (với điều kiện file input phải có các điểm pickup)

Ví dụ chạy mức 3: SearchAlgorithms.py Input1.txt 3

S = 4: Chạy thuật toán mức 4 (với điều kiện không có các điểm pickup)

Các fileInput chạy ở từng mỗi mức:

Mức 1, 2, 4: Input0.txt, Input2.txt, Input3.txt, Input4.txt, Input5.txt, Input6.txt

Mức 3: Input1.txt

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5ndXllbiBIYW8AAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1NgAAkpIAAgAAAAM1NgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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