

```

1 from program2_1 import Dvector
2
3 M = 2 # 行の要素数
4 N = 3 # 列の要素数
5
6 class Dmatrix(object):
7     def __init__(self, row_head_idx: int, row_last_idx: int, col_head_idx: int, col_last_idx: int):
8         matrix = Dvector(row_head_idx, row_last_idx)
9         for i in range(row_head_idx, row_last_idx+1):
10             matrix[i] = Dvector(col_head_idx, col_last_idx)
11         self.matrix = matrix
12         self.row_head_idx = row_head_idx
13         self.row_last_idx = row_last_idx
14         self.col_head_idx = col_head_idx
15         self.col_last_idx = col_last_idx
16
17     def __repr__(self):
18         return "[" + "\n ".join(map(str, self.matrix)) + "]"
19
20     def __iter__(self):
21         return iter(self.matrix)
22
23     def __getitem__(self, key):
24         return self.matrix[key]
25
26     def __setitem__(self, key, value):
27         self.matrix[key] = value
28
29     # オブジェクトの値渡しで使用
30     def copy(self):
31         cpy = Dmatrix(self.row_head_idx, self.row_last_idx, self.col_head_idx, self.col_last_idx)
32         for i in range(self.row_head_idx, self.row_last_idx+1):
33             cpy.matrix[i] = self.matrix[i].copy()
34         return cpy
35
36
37 def main():
38     global M, N
39     a = Dmatrix(1,M,1,N)
40
41     for i in range(1, M+1):
42         for j in range(1, N+1):
43             a[i][j] = (i+j) / 2.0
44             print(f"a[{i}][{j}]={a[i][j]}")
45
46
47 if __name__ == "__main__":
48     main()

```