a, b, m = map(int,input().split())

a\_list = list(map(int,input().split()))

b\_list = list(map(int,input().split()))

cnt\_2 = 10\*\*10

for i in range(m):

x, y, c = map(int,input().split())

cnt = a\_list[x-1] + b\_list[y-1] -c

if cnt < cnt\_2:

cnt\_2 = cnt

a\_min = min(a\_list)

b\_min = min(b\_list)

cnt\_3 = a\_min + b\_min

print(min(cnt\_2,cnt\_3))