## 针对以下三个循环:

```
for i = 1 to N do //循环 2
S: T = A[i]
T: A[i] = B[i]
U: B[i] = T
endfor
(1) 给出该循环的语句依赖图。
(2) 尝试对循环 2 并行化/向量化。
```

```
for k = 1 to L do
                   //循环3
   for j = 1 to M do
      for i = 1 to N
S: A[i+1,j+1,k+1] = A[i,j,k+1] + A[i,j+1,k] +
                     A[i+1,j+1,k]
      endfor
  endfor
endfor
(1)给出循环3的依赖方向向量。
(2) 令 k1 = k 、 j1 = j + k 和 i1 = i 变换如下,
  for k1 = ... ...
      for j1 = ... ...
         for i1 = ... ...
           A[...,...] = ...
      给出变换后的循环,及其新的依赖方向向量。
```

● 尝试 OpenMP 并行化变换后的循环。