```
main.c
         #include<stdio.h>
         #include<stdlib.h>
         void prims();
         int c[10][10],n;
    4
         int main()
    5
    6
    7
          int 1, j;
    8
          printf("\nenter the no. of vertices:\t");
    9
          scanf("%d",&n);
          printf("\nenter the cost matrix:\n");
   10
          for(i=1;i<=n;i++)
   11
   12
           for(j=1;j<=n;j++)
   13
   14
            scanf("%d",&c[i][j]);
   15
    16
    17
          prims();
    18
    19
    20
                                          Ŧ
         void prims()
    21
    22
           int i,j,u,v,min;
    23
          int ne=0,mincost=0;
    24
           int elec[10];
    25
          for(i=1;i<=n;i++)
    26
           {
    27
            elec[i]=0;
    28
           }
    29
           elec[1]=1;
    30
           while(ne!=n-1)
    31
     32
            min=9999;
     33
            for(i=1;i<=n;i++)
     34
```

(£)

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emester) (April 2021) (CPH)
                                               MorizontalOddSyndrome - Repli
ontalOddSyndro...
                                                         Run >
  main.c
     35
     36
              for(j=1;j<=n;j++)
     37
                if(elec[i]==1)
     38
     39
                 if(c[i][j]<min)</pre>
     40
     41
     42
                  min=c[i][j];
     43
                  u=i;
     44
                  v=j;
      45
      46
      47
      48
              if(elec[v]!=1)
      49
      50
      51
               printf("\n%d---->%d=%d\n",u,v,min);
      52
               elec[v]=1;
      53
               ne=ne+1;
      54
               mincost=mincost+min;
      55
      56
              c[u][v]=c[v][u]=9999;
      57
             }
             printf("\nmincost=%d",mincost);
      58
      59
```

```
clang-7 -pthread -lm -o main main.c
                                                            Q ×
./main
enter the no. of vertices:
enter the cost matrix:
9999 1 9999 6 9999
9999 6 6 9999 8 5
6 9999 9999 8 9999 2
5 4 4 5 2 9999
```

