

24)

2c sol) $\#include <stdio.h>$
 $\#include <math.h>$

int main ()

{

int n1[] = { 8200, 8300, 6900,
9200 };

int n2[] = { 7700, 3700, 4900, 9200 };

~~int n3[]~~

int n3[] = { 1100, 6900, 500, 8600 };

int n4[] = { 800, 900, 9800, 2300 };

int temp_cost, min_cost;

~~temp cost~~

min_cost = n1[0] + n2[1] + n3[2] + ~~n4[3]~~;

int allotment[] = { 1, 2, 3, 4 };

for (int a1=1 ; a1<=4 ; a1=a1+1)

{ for (int a2=1 ; a2<=4 ; a2=a2+1)

{ if (a2 == a1)

{ for (int a3=1 ; a3<=4 ; a3=a3+1)

{ if ($a_3! = a_1 \& \& a_3! = a_2$)

{ for (int $a_4=1$; $a_4 \leq 4$; $a_4=a_4+1$)

{ if ($a_4! = a_1 \& \& a_4! = a_2 \& \& a_4! = a_3$)

{ temp-cost = $n_1[a_1-1] + n_2[a_2-1] + n_3[a_3-1]$
 $+ n_4[a_4-1];$

if (temp-cost < mincost)

{

mincost = temp-cost;

allot[0] = a_1 ;

allot[1] = a_2 ;

allot[2] = a_3 ;

allot[3] = a_4 ;

}

}

}

}

point f ("Cost = %d \n", mincost);

// use to get final cost

for (int i=1; i<=4; i=i+1)

{ point f ("Machine %d - Vendor %d \n", i,
 allot[i-1]); }

}

return 0;