Bankers Code:

```
#include <iostream>
using namespace std;

int main()
{
int n, m, i, j, k;
cout<<"enter no of process"<<"\n";
cin>>n;
m = 3;
int alloc[n][3];
for(int i=0;i<n;i++)
{
   for(int j=0;j<3;j++)
   {
      cin>>alloc[i][j];
   }
   cout<<"\n";
}
int max[5][3] = { { 7, 5, 3 },
                    { 3, 2, 2 },
                    { 9, 0, 2 },
                    { 2, 2, 2 },
                    { 4, 3, 3 } };

int avail[3] = { 3, 3, 2 };

int f[n], ans[n], ind = 0;
for (k = 0; k < n; k++) {
          f[k] = 0;
}
int need[n][m];
for (i = 0; i < n; i++) {
          for (j = 0; j < m; j++)
          need[i][j] = max[i][j] - alloc[i][j];
}
int y = 0;
for (k = 0; k < 5; k++) {
          for (i = 0; i < n; i++) {
          if (f[i] == 0) {

                    int flag = 0;
                    for (j = 0; j < m; j++) {
                    if (need[i][j] > avail[j]){
                              flag = 1;
                              break;
                    }
                    }

                    if (flag == 0) {
                    ans[ind++] = i;
                    for (y = 0; y < m; y++)
                              avail[y] += alloc[i][y];
                    f[i] = 1;
                    }
          }
          }
}
int flag = 1;
for(int i = 0;i<n;i++)
{
                    if(f[i]==0)
          {
                    flag = 0;
                    cout << "The given sequence is not safe";
                    break;
          }
}
if(flag==1)
{
          cout << "Following is the SAFE Sequence" << endl;
          for (i = 0; i < n - 1; i++)
                    cout << " P" << ans[i] << " ->";
          cout << " P" << ans[n - 1] <<endl;
}
          return (0);
}
```

OUTPUT:

```
enter no of process
5
0 1 0
2 0 0
3 0 2
2 1 1
0 0 2
Following is the SAFE Sequence
 P1 -> P3 -> P4 -> P0 -> P2
```