An Example of Mplus Code: Testing Configural Invariance of the "Before" Model

```
TITLE:
      before measurement model 3 groups configural inv
  DATA:
      FILE (ch) IS CH_for_mplus2.csv;
      FILE (amab) IS AMAB_for_mplus.csv;
      FILE (amus) IS AMUS_for_mplus.csv;

  VARIABLE:
      NAMES ARE faceunb1-faceunb8 loseprb1-loseprb4 icab1-icab14
      intengb1-intengb4 faceund1-faceund8
      loseprd1-loseprd4 fawork1-fawork6
      icad1-icad14 intcond1-intcond4 novimm1-novimm26
      vbimm1-vbimm15 import1-import4;

      USEVARIABLES = faceunb1-faceunb8 loseprb1-loseprb4 icab2 icab4
      icab6 icab8 icab11 icab13 icab14 intengb1-intengb4 import1-import4;


  MODEL:
      faceunb BY faceunb1-faceunb8;
      loseprb BY loseprb1-loseprb4;
      icab BY icab2 icab4 icab6 icab8 icab11 icab13 icab14;
      intengb BY intengb1-intengb4;
      import BY import1-import4;

      [faceunb1-faceunb8 loseprb1-loseprb4 icab2 icab4 icab6 icab8
      icab11 icab13 icab14 intengb1-intengb4 import1-import4];

      [faceunb-import@0];

      MODEL amab:
      faceunb BY faceunb2-faceunb8;
      loseprb BY loseprb2-loseprb4;
      icab BY icab4 icab6 icab8 icab11 icab13 icab14;
      intengb BY intengb2-intengb4;
      import BY import2-import4;
```

#The above five lines were deleted when testing pattern invariance so that loadings were not modeled separately for this sample.#

```
      [faceunb1-faceunb8 loseprb1-loseprb4 icab2 icab4 icab6 icab8
      icab11 icab13 icab14 intengb1-intengb4 import1-import4];

      MODEL amus:
      faceunb BY faceunb2-faceunb8;
      loseprb BY loseprb2-loseprb4;
      icab BY icab4 icab6 icab8 icab11 icab13 icab14;
      intengb BY intengb2-intengb4;
      import BY import2-import4;
```

#The above five lines were deleted when testing pattern invariance so that loadings were not modeled separately for this sample.#

```
    [faceunb1-faceunb8 loseprb1-loseprb4 icab2 icab4 icab6 icab8
    icab11 icab13 icab14 intengb1-intengb4 import1-import4];

OUTPUT:
    sampstat standardized modindices(10);
```