

Problem Set 1: PSID - Labor Outcomes

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```
df <- read_dta("~/SchoolWork/Y2S1/Macro/Data/PSID/PSID.dta")
head(df, 10)
```

A tibble: 10 x 218

	ER13001	ER13002	ER13010	ER13011	ER13216	ER13218	ER13224	ER13363	ER13601
	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	9	3	76	1	0	0	0	0	0
2	9	2	47	1	628	400	0	40	0
3	9	6129	45	2	669	0	0	65	0
4	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	9	6944	39	2	907	0	15.4	45	0
6	9	3818	34	1	69	600	0	50	0
7	9	1702	25	2	0	0	0	0	0
8	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	9	5478	23	1	139	0	8.5	40	0
10	9	2471	22	1	67	0	8	30	0

i 209 more variables: ER14113 <dbl>, ER14428 <dbl>, ER15937 <dbl>,
ER15952 <dbl>, ER15953 <dbl>, ER17001 <dbl>, ER17002 <dbl>, ER17013 <dbl>,
ER17014 <dbl>, ER17227 <dbl>, ER17229 <dbl>, ER17235 <dbl>, ER17375 <dbl>,
ER17393 <dbl>, ER17657 <dbl>, ER18579 <dbl>, ER19998 <dbl>, ER20013 <dbl>,
ER20014 <dbl>, ER21001 <dbl>, ER21002 <dbl>, ER21017 <dbl>, ER21018 <dbl>,
ER21146 <dbl>, ER21153 <dbl>, ER21159 <dbl>, ER21202 <dbl>, ER21234 <dbl>,
ER21266 <dbl>, ER21339 <dbl>, ER21356 <dbl>, ER21589 <dbl>, ...

```
earn <- sample(c("ER13218", "ER17229", "ER21153", "ER25142", "ER36147", "ER42182", "ER47495")
df <- df %>%
  pivot_longer(
    c("ER13218", "ER17229", "ER21153", "ER25142", "ER36147", "ER42182", "ER47495", "ER53195")
    , names_to = "year", values_to = "earnings"
  ) %>%
  mutate(year = as.numeric(str_extract(year, "\\d+"))) %>%
```

```
mutate(earnings = ifelse(earnings == 999999, NA, earnings))
summary(df$year)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13218	25142	47495	47293	66211	82199

1 - Construct life-cycle profiles for the entire sample:

Labor force participation:

Annual earnings: